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**WATER QUALITY DATA  
FOR ONTARIO  
LAKES AND STREAMS  
1983**

**VOLUME XIX**

**NORTHEASTERN REGION**

**MARCH 1989**



**Environment  
Ontario**

**Jim Bradley  
Minister**

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WATER QUALITY DATA FOR ONTARIO LAKES AND STREAMS

1983

VOLUME XIX

NORTHEASTERN REGION

Water Resources Branch

March 1989

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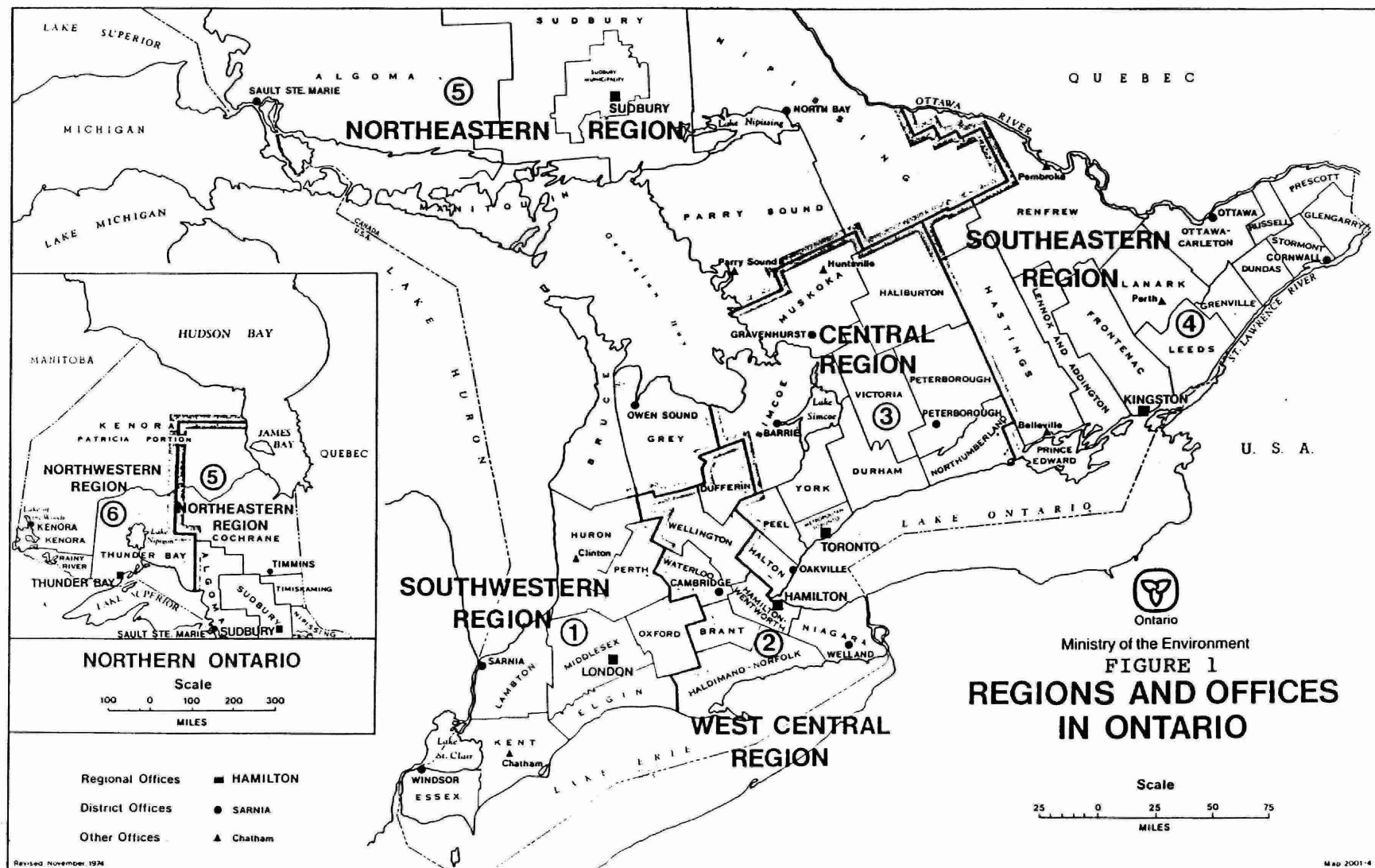
## INTRODUCTION

"Water Quality Data Ontario Lakes and Streams, 1983, Volume XIX, Northeastern Region", is a revised version of the previously published series entitled "Water Quality Data for Ontario Lakes and Streams, 1981, Volume I-XVII". Published by the Water Resources Branch of the Ontario Ministry of the Environment. The data presented in this publication were collected by the Water Resources Assessment Units of this Ministry's six Regional Offices (Figure 1) with the assistance of local Conservation Authorities. Compilation and publication were performed by the River Systems Section of the Water Resources Branch. The data result from a routine sampling program designed to provide a long-term record of water quality information at specific points on rivers and inland lakes in Ontario.

Sampling station locations have been selected to meet one or more of the following requirements: (1) to measure quantitatively and qualitatively, the materials discharged from tributary streams to the terminal basins; (2) to monitor the effects of wastewater discharges on a watercourse; (3) to provide data that can be considered generally representative of water quality conditions in a certain area.

The information is used by the Ontario Ministry of the Environment to maintain surveillance over water quality and to provide supporting data used in the analysis and prediction of water quality for planning and other purposes. The data are also made available to any person or agency concerned with the quality of Ontario's rivers and lakes. The booklet "Water Management Goals, Policies, Objectives and Implementation Procedures of the Ministry of the Environment", 1978 (Revised May, 1984) outlines the current policies for water management in Ontario.

Samples are analysed for some or all of the following parameters: counts of total and fecal coliforms, enterococci, *Pseudomonas aeruginosa* and *Escherichia coli* forms, concentrations of biochemical oxygen demand, total phosphorus, filtered reactive phosphate, filtered ammonia, total Kjeldahl nitrogen, filtered nitrite and nitrate forms of nitrogen; total suspended and dissolved solids; levels of conductivity and



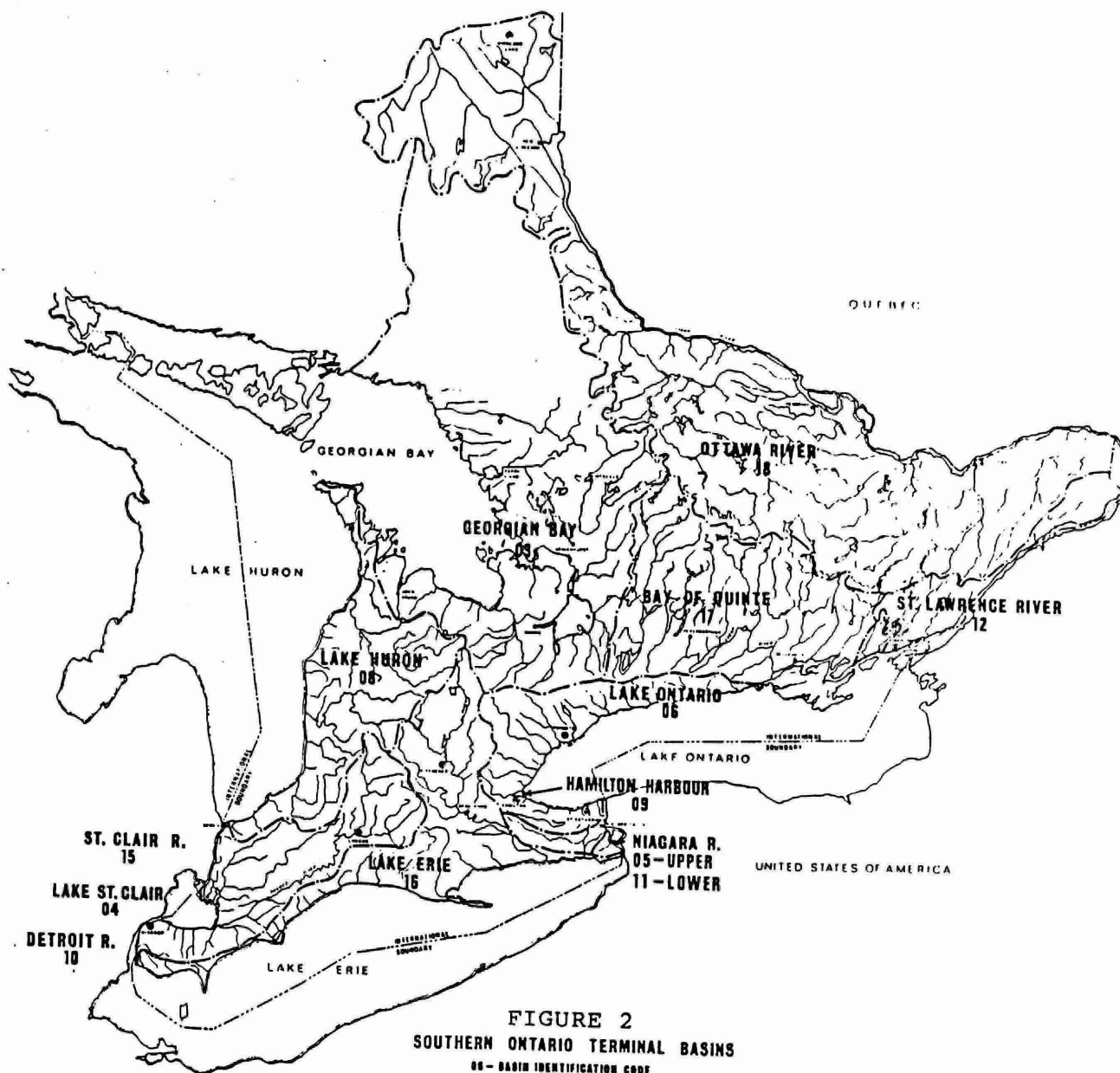
turbidity; concentrations of chlorides, sulphates, unfiltered reactive silicates, acidity, alkalinity; units of pH; concentrations of total iron, phenols, hardness, calcium, magnesium; units of colour; concentrations of potassium, sodium, total organic carbon, chemical oxygen demand, solvent extractables, arsenic, mercury, aluminium, chromium, copper, lead, cadmium, zinc, manganese, nickel, fluoride, cyanide and cobalt.

In addition, radiochemical analyses are conducted on selected samples and the results are expressed as levels of ionizing radiation (i.e. the number of nuclear disintegrations per second). Selected samples are analysed for some or all of the following radiochemical parameters: gross alpha, gross beta, radium-226, total uranium, cesium-137, cesium-134, cobalt-60, tritium and iodine 131.

Some samples are also analysed for some or all of the following synthetic organic parameters: concentrations of PCB, PCP and 2,4,5-T.

The water quality monitoring program commenced in July 1964 in Southern Ontario and currently consists of a total of 780 stations throughout Ontario. The following maps (figures 2 and 3) show the Southern and Northern Ontario Terminal Basins which are used to identify the sampling station locations. Definitions or brief descriptions are provided for the more common parameters of pollution under the section entitled Interpretation of Data.

Other water quality monitoring programs such as the Fish Contaminant Monitoring Program which is co-ordinated by the Ontario Ministries of Natural Resources, Environment and Labour are not discussed in this publication. A summary of health implications of contaminants in fish with a listing of test results from each fish sampling location can be found in the Ministry publication, "Guide to Eating Ontario Sport Fish." This publication is updated annually and is available free of charge, Ministry of the Environment, Water Resources Branch, 135 St. Clair Avenue West, Toronto, Ontario, M4V 1P5, telephone (416) 323-4994.





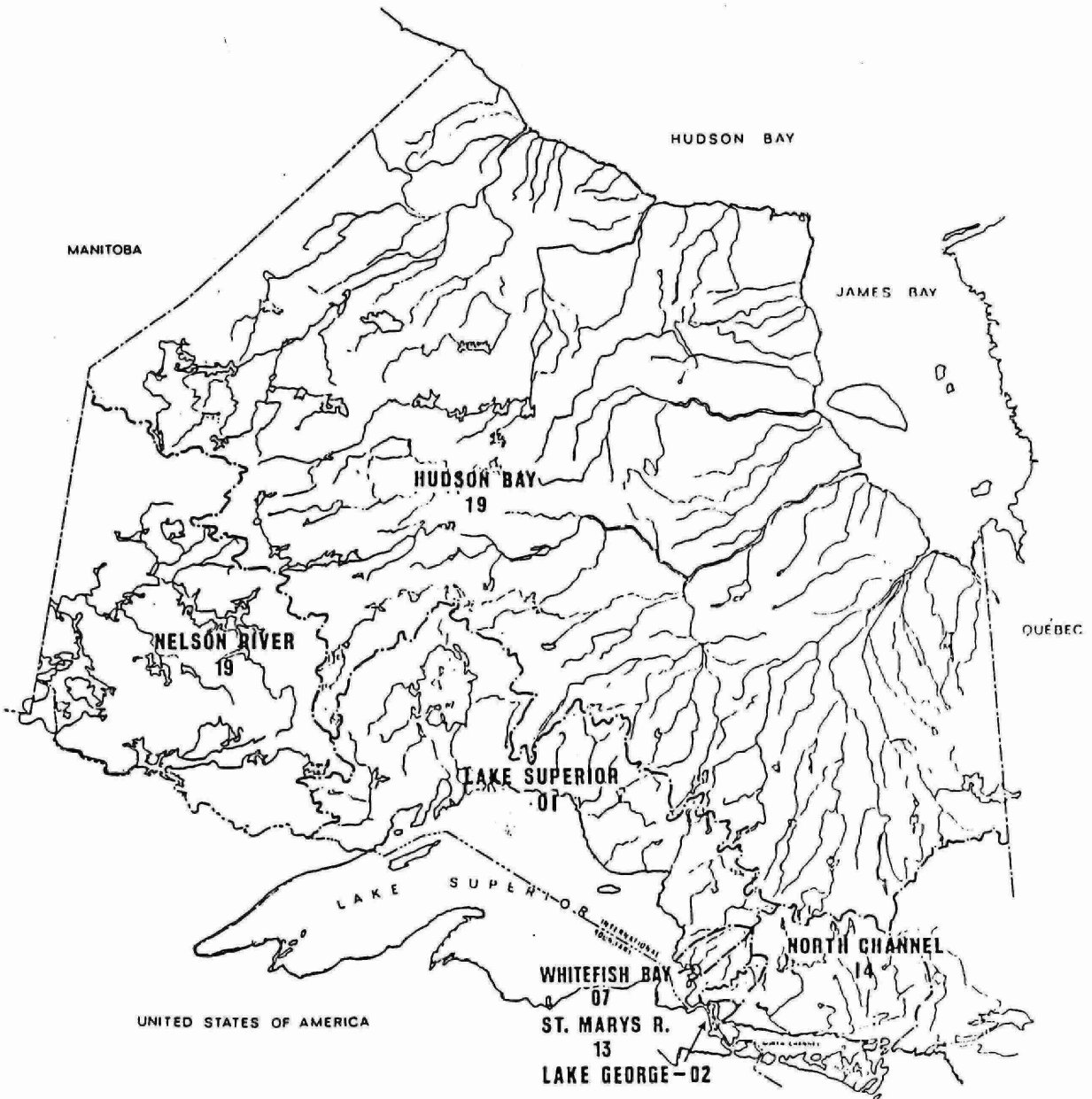


FIGURE 3  
NORTHERN ONTARIO TERMINAL BASINS  
19- BASIN IDENTIFICATION CODE

The streamflow station network in Ontario is not discussed in this publication. Whenever streamflow data exists at tributary locations which are coincident with the water quality monitoring station locations, mean daily discharges is reported along with the water quality data. The collection of hydrometric data in Ontario has been carried out under a Memorandum of Agreement between the Government of Canada and the Province of Ontario since April, 1975. The Province of Ontario is represented in the Agreement by the Ministry of the Environment, the Ministry of Natural Resources and Ontario Hydro. These agencies meet at regular intervals with the Water Survey of Canada to administer the Agreement. Streamflow data for Ontario are published annually as surface water data by the Federal Government.

#### NETWORK MAP SHEETS

Individual station locations are identified on specially prepared network maps. These network maps have been drawn to conform approximately to the boundaries of the Ministry's Regions, and are grouped according to Regions. Two index maps (Figures 4 and 5) illustrate individual map sheet coverages within the Province.

The following procedures was used in the preparation of the maps. Individual base maps within a Region were assembled using the National Topographic Series maps at a scale of 1:250,000. In northern Ontario, this was reduced to a scale of 1:500,000 in the Lake Superior and Nelson River basins, and to a scale of 1:2,000,000 in the Hudson Bay basin. For each base map, an overlay of the river systems was prepared, showing major watershed and Ministry of the Environment Regional boundaries. Numeric terminal basin and stream codes were added, and active water quality monitoring stations were located on each overlay and referenced with station numbers. The overlays were then reduced to approximately 40% of their original size for purposes of this publication.

The previously-mentioned terminal basin and stream code, when combined in sequence with a given station number, form a unique station identifier which appears as the "Station ID". The "Station ID" is listed for all active monitoring stations in the "Sampling Station Directory", an alphabetical listing of terminal streams monitored in Northeastern Region (See Sampling Station Directory).

The location of stations in the Northeastern Region are shown in figures 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16. The locations of the other stations in the other regions and in other parts of Ontario such as those located on the Great Lakes or those operated by the Water Quality Branch, Ontario Region, Environment Canada, are not included.

### INTERPRETATION OF DATA

The definition of the parameters measured in the Provincial Water Quality Monitoring Program are listed in the following pages. The significance of each measurement in regard to specific water uses can be determined by referring to the booklet "Water Management, Goals, Policies, Objectives and Implementation Procedures of the Ministry of the Environment, November, 1978". (Revised, May 1984)

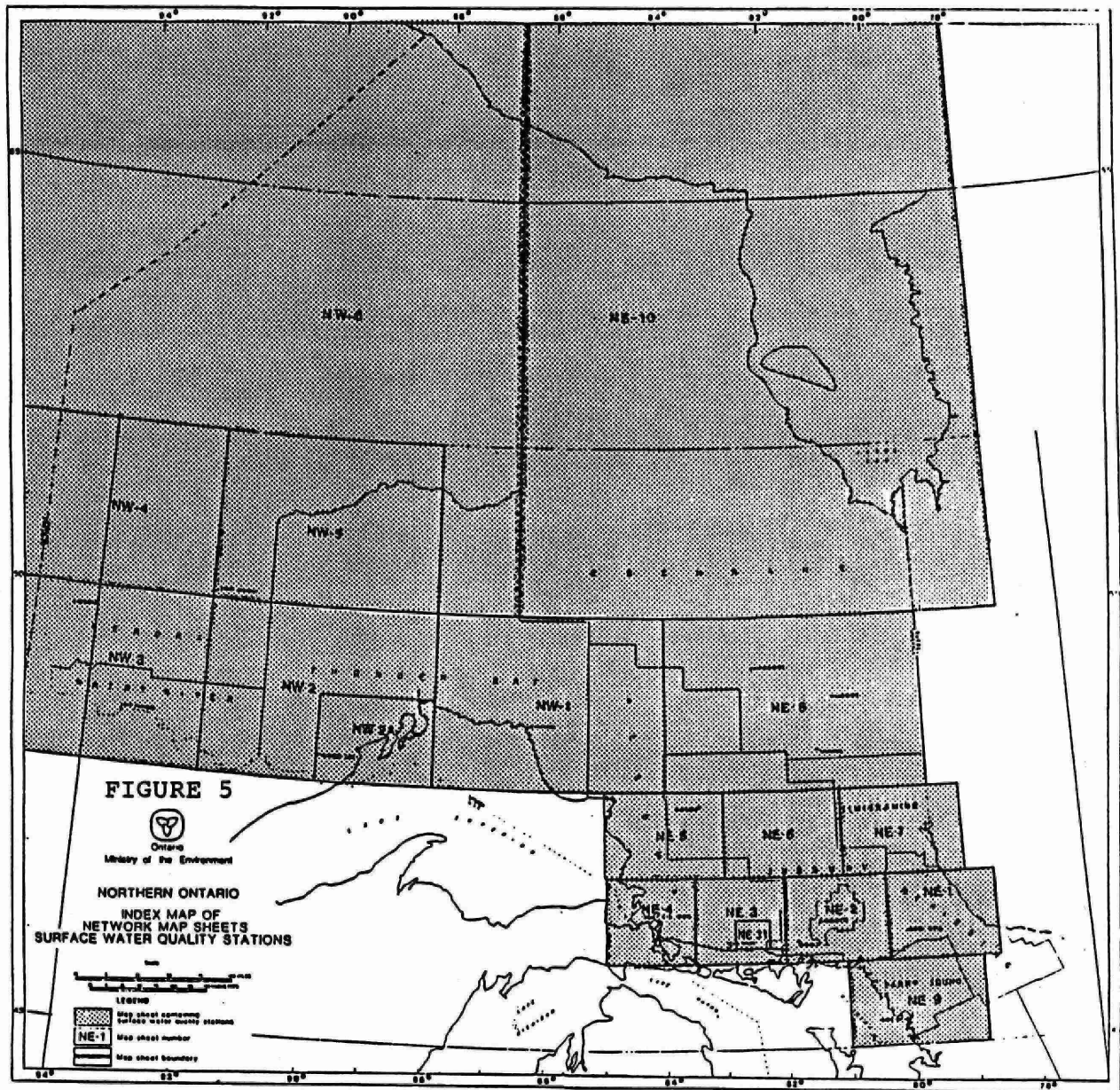
#### A. ANALYSES AND MEASUREMENTS CONDUCTED AT THE SAMPLING SITE

##### Stream Condition

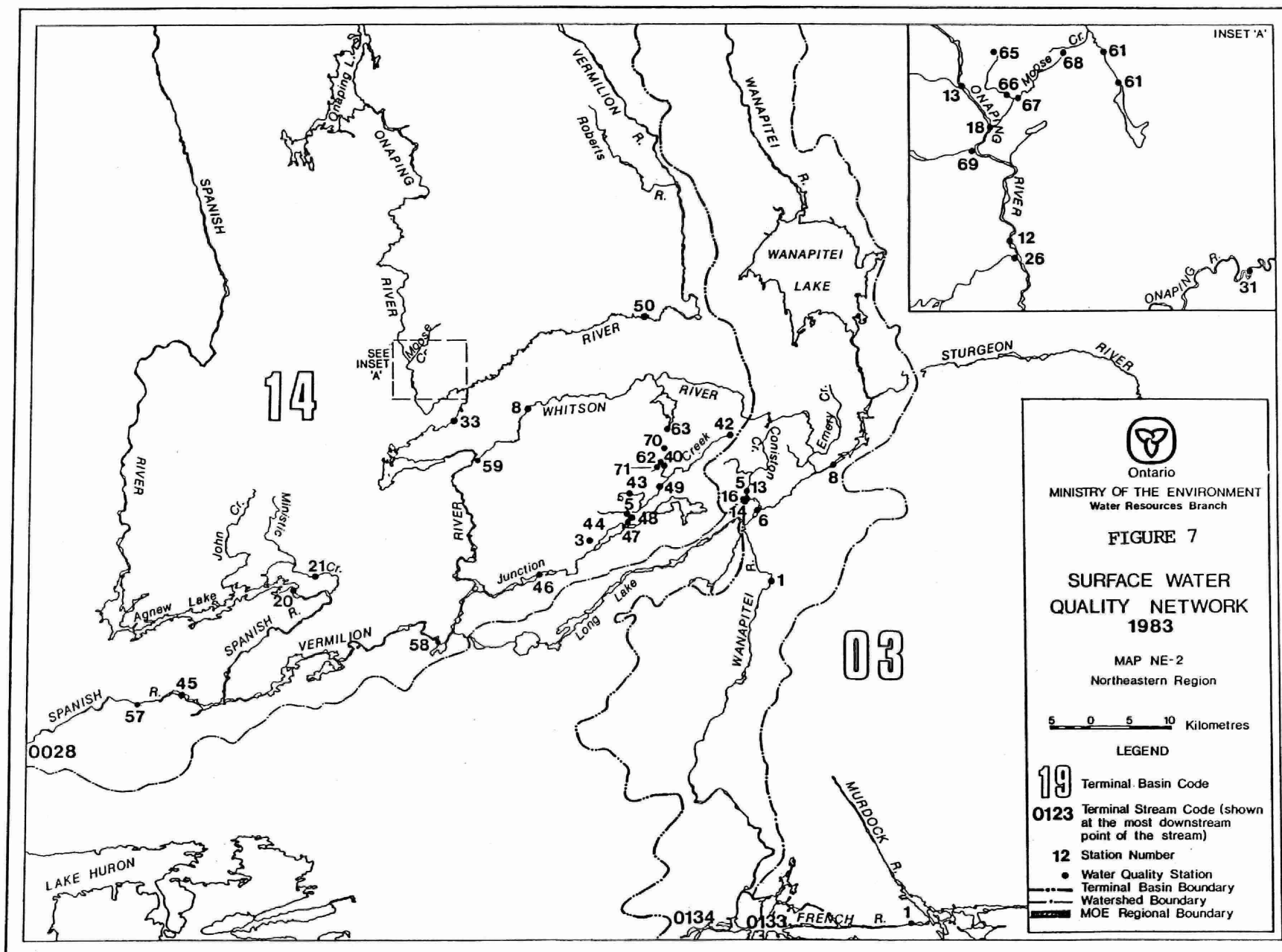
The physical condition of the body of water is described from an on-site examination at the time of sampling and is represented by a one-digit number from one to zero as follows:

1. Stream dry
2. Frozen to stream bed
3. Stream in flood condition
4. Sampled through ice











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FIGURE 8

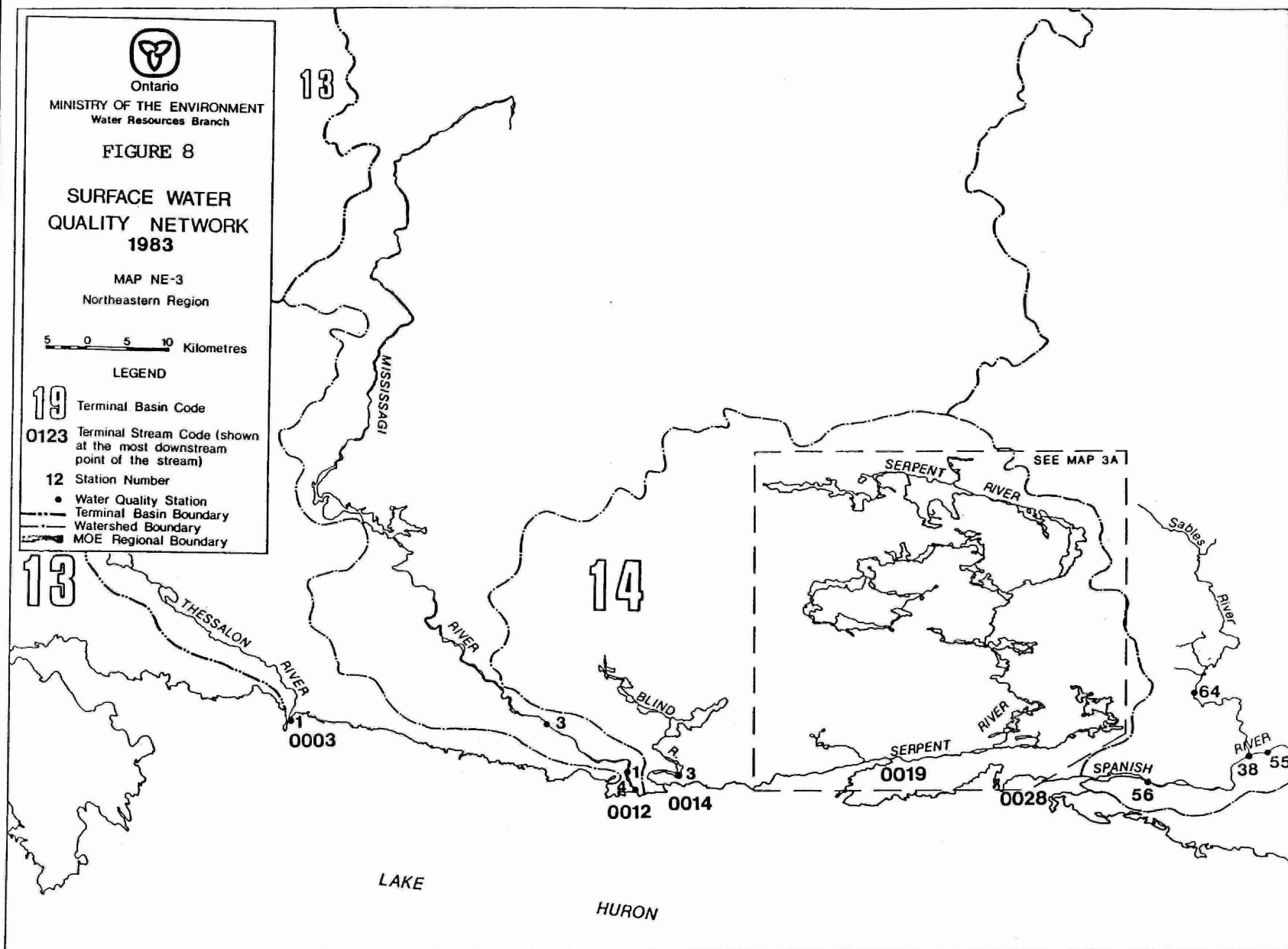
SURFACE WATER  
QUALITY NETWORK  
1983

MAP NE-3  
Northeastern Region

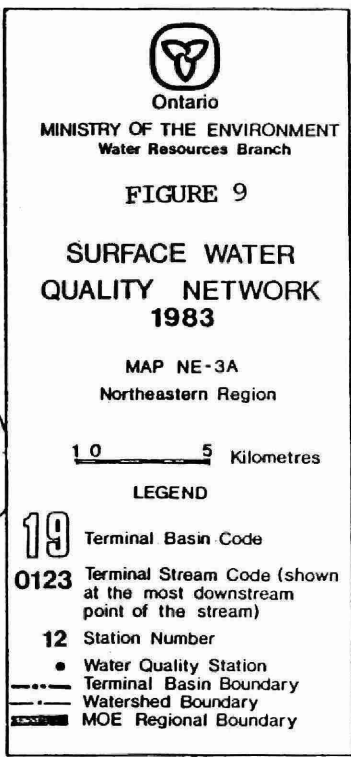
5 0 5 10 Kilometres

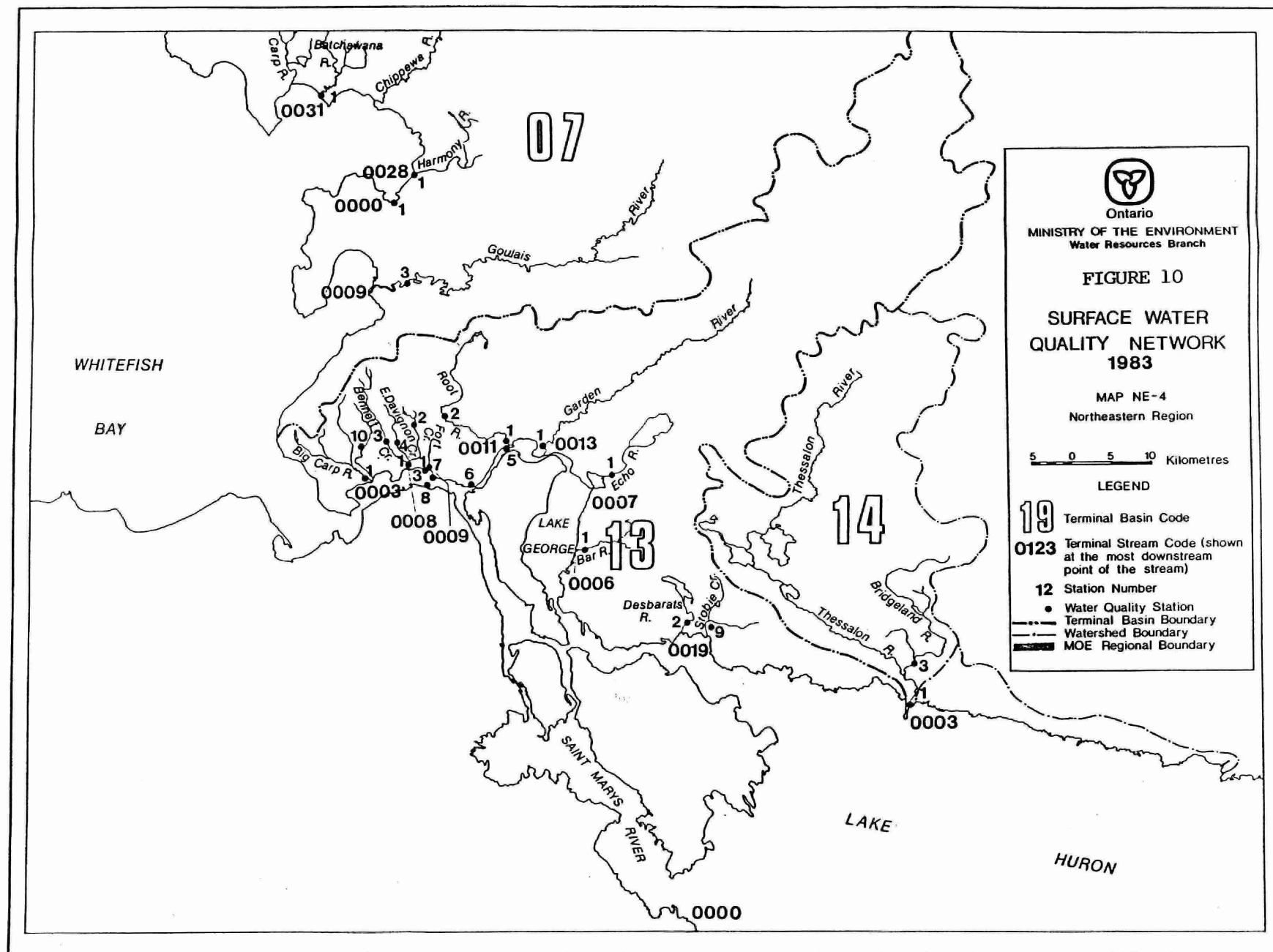
LEGEND

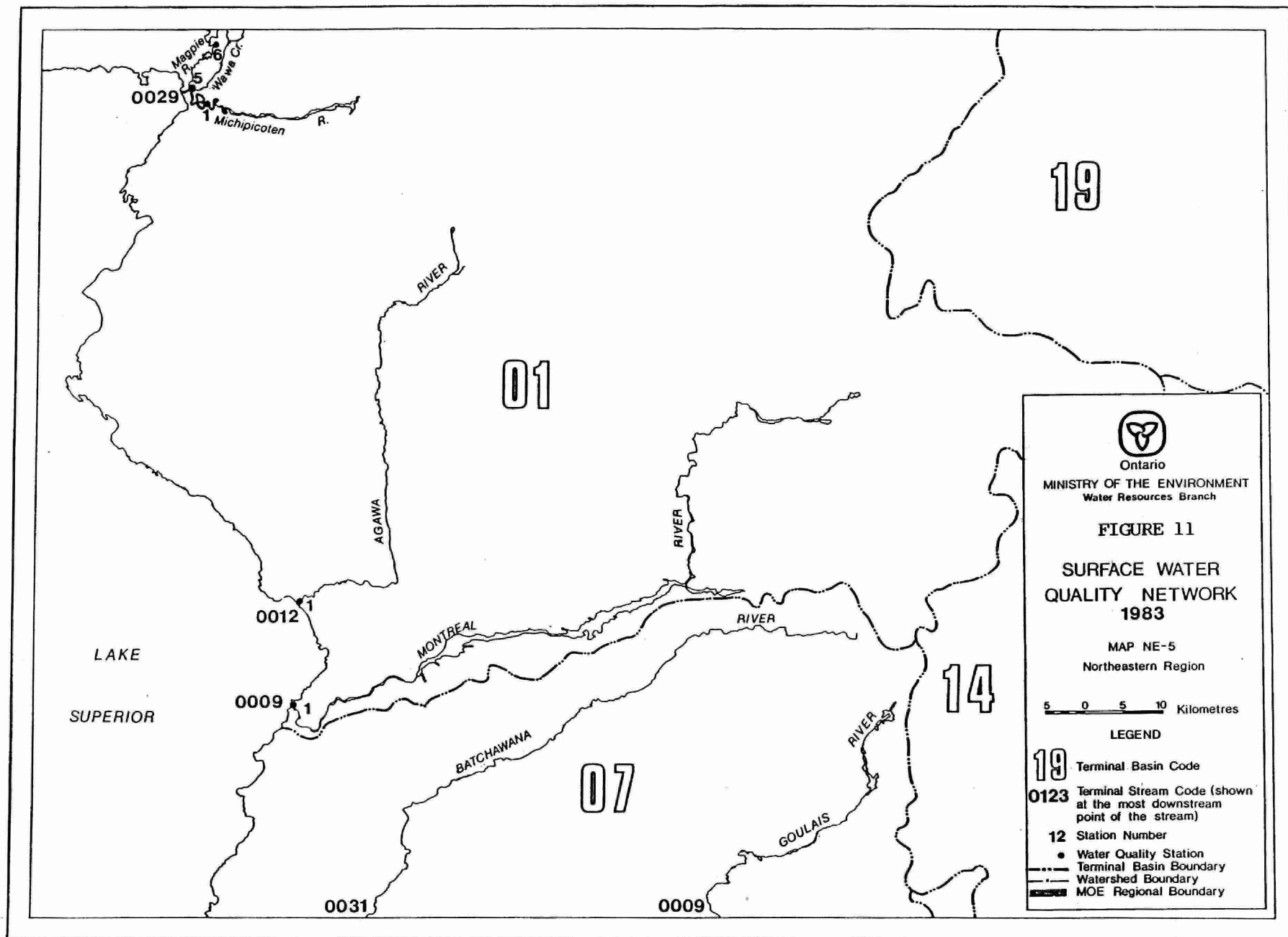
- 19 Terminal Basin Code  
0123 Terminal Stream Code (shown  
at the most downstream  
point of the stream)  
12 Station Number  
• Water Quality Station  
--- Terminal Basin Boundary  
--- Watershed Boundary  
--- MOE Regional Boundary











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FIGURE 11

SURFACE WATER  
QUALITY NETWORK  
1983

MAP NE-5

Northeastern Region

5 0 5 10 Kilometres

LEGEND

- 19 Terminal Basin Code
- 0123 Terminal Stream Code (shown at the most downstream point of the stream)
- 12 Station Number
- Water Quality Station
- Terminal Basin Boundary
- Watershed Boundary
- MOE Regional Boundary



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Water Resources Branch

FIGURE 12

SURFACE WATER  
QUALITY NETWORK  
1983

MAP NE-6

Northeastern Region

5 0 5 10 Kilometres

LEGEND

- 19 Terminal Basin Code
- 0123 Terminal Stream Code (shown  
at the most downstream  
point of the stream)
- 12 Station Number
- Water Quality Station
  - Terminal Basin Boundary
  - Watershed Boundary
  - MOE Regional Boundary

19

18

03

14

MATTAGAMI

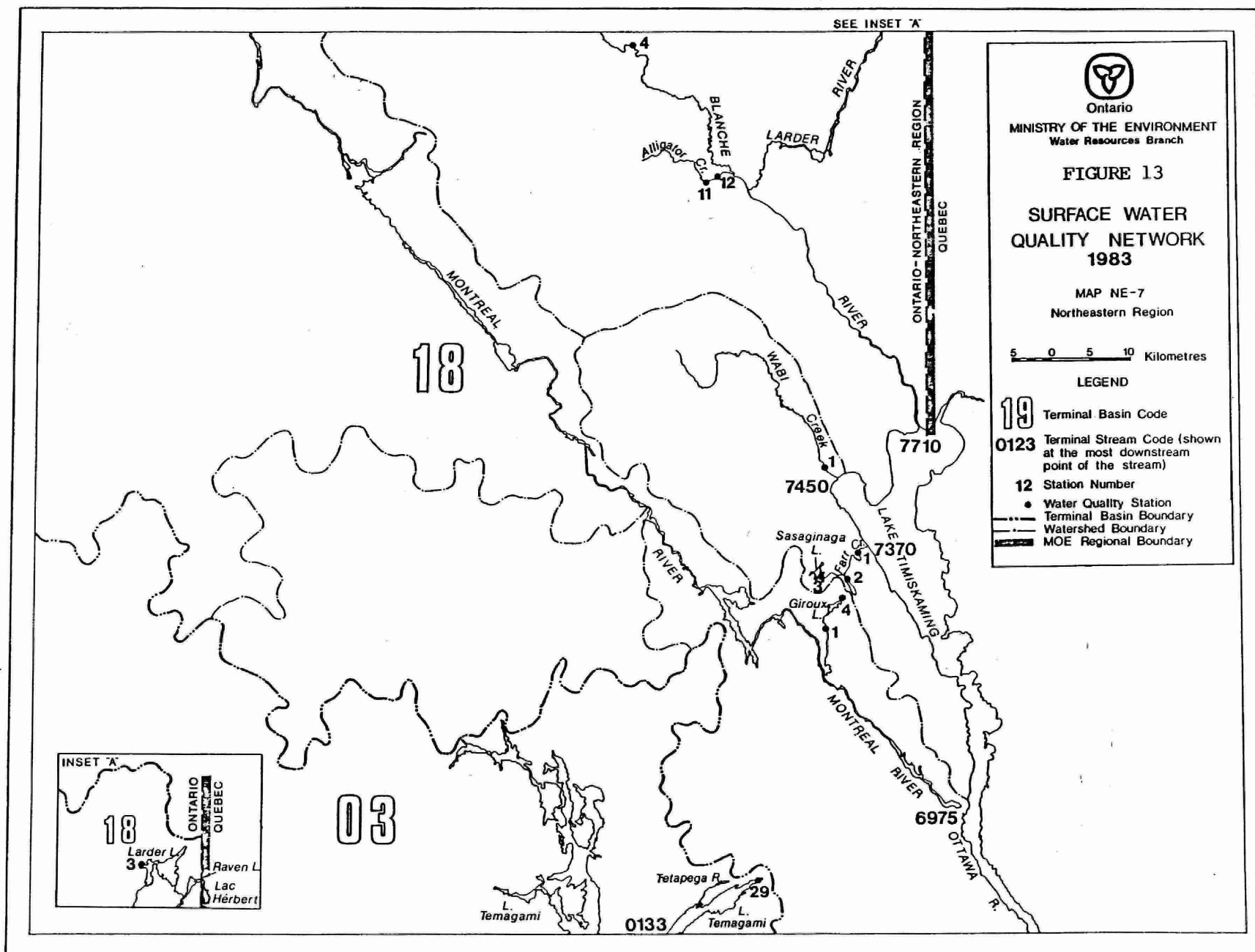
LAKE

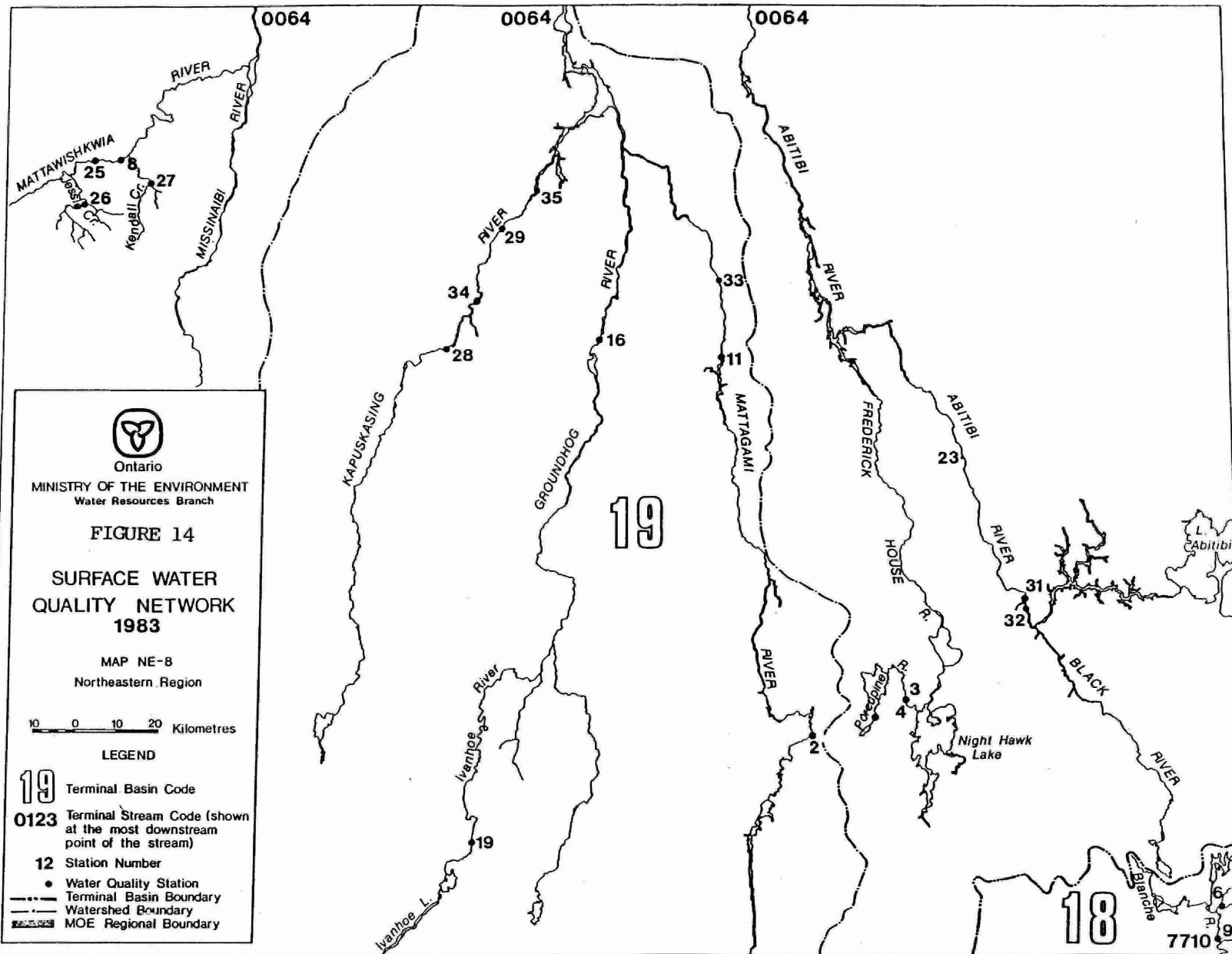
RIVER

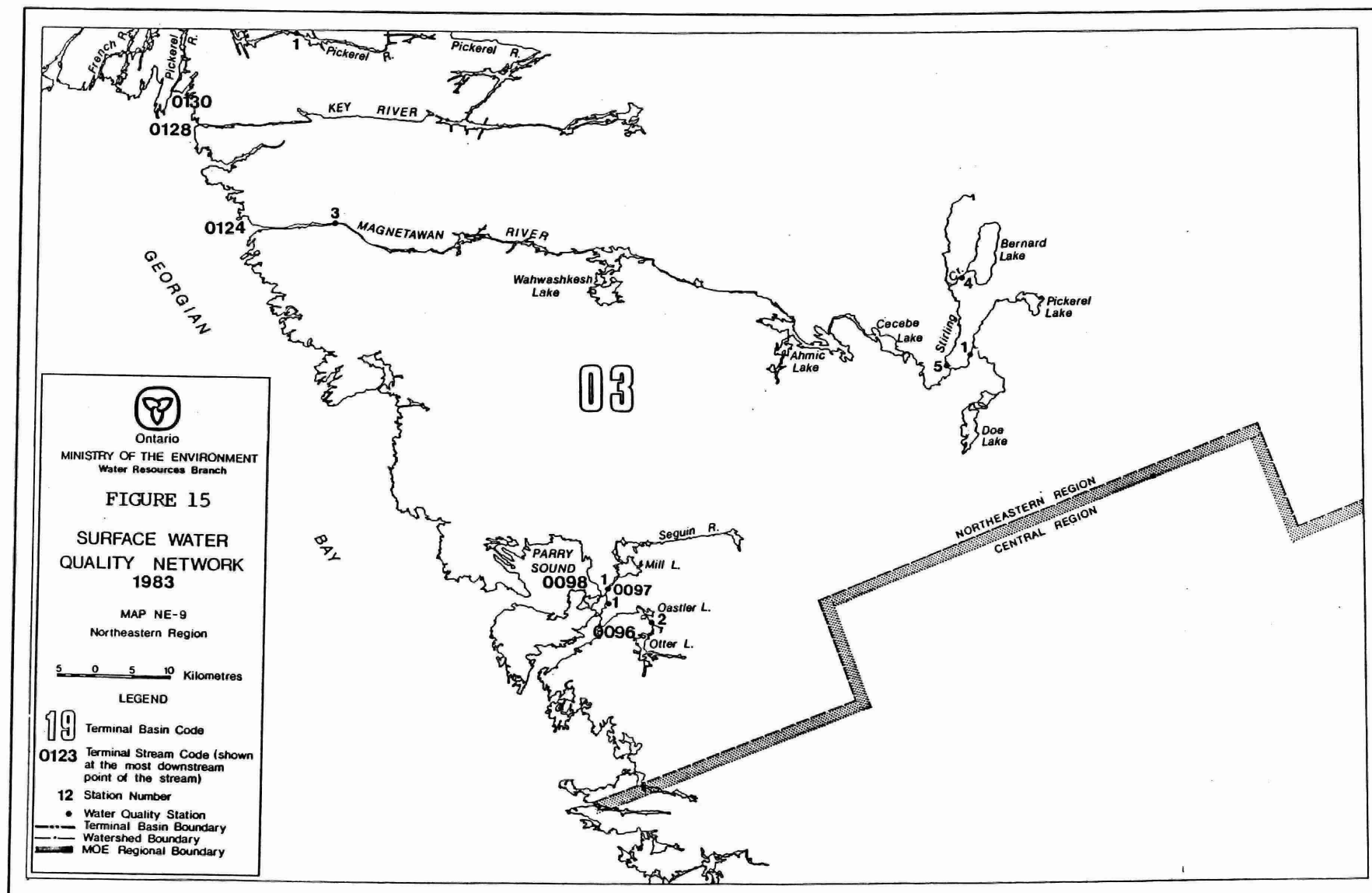
SPANISH

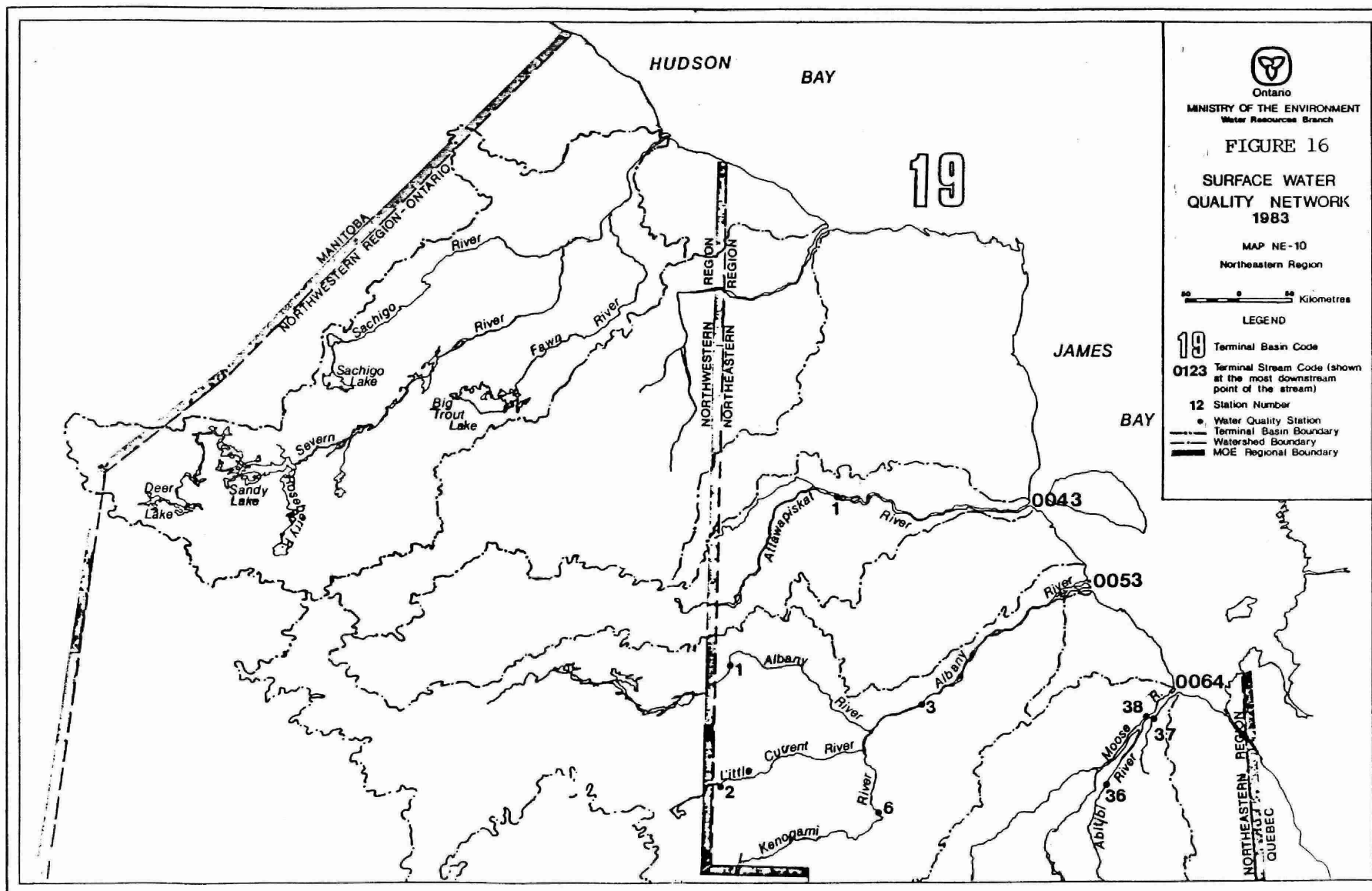
RIVER

WANAPITEI











5. Suspended algae
6. No apparent algae
7. Profuse weed growth
8. Normal
9. Oil scum or floating matter
10. Objectionable odours

Under some circumstances a combination of up to three of the above conditions may be shown for a given sample at an individual station.

### **Streamflow**

Streamflow information at or near a water quality monitoring site is an important factor when interpreting and employing water quality data. The product of streamflow and concentration defines the mass of material passing a point. Streamflow is also a useful reference when comparing water quality data for different periods of the year (e.g. spring flood vs summer drought).

Flows in many of the streams sampled are measured by the Water Survey of Canada, Inland Waters Directorate, Environment Canada.

### **Temperature**

Water temperature is an important factor when a number of water quality parameters are being evaluated. Temperature directly affects the solubility of gases (e.g. dissolved oxygen) and significantly affects biological and chemical reaction rates.

Temperature is measured at the sampling site with an electronic thermistor or a mercury thermometer.

## Dissolved Oxygen

Dissolved oxygen in water originates directly from the atmosphere or through photosynthesis in aquatic plants. Ample dissolved oxygen is necessary to maintain satisfactory conditions for fish and other biological life in water. Organic wastes and some inorganic materials exert, upon decomposition, an oxygen demand which may deplete the dissolved oxygen below levels required by aquatic life.

Dissolved oxygen is measured at the sampling site with an electronic meter or by a chemical titration.

## **B. ANALYSES AND MEASUREMENTS CONDUCTED AT THE LABORATORY**

### **1. MICROBIOLOGICAL ANALYSES**

#### **Total Coliform**

The Membrane Filter (MF) technique is used to obtain an approximation of the concentration of total coliform organisms. These organisms are normal inhabitants of soils and the intestines of man and other warm-blooded animals. They are always present in large numbers in sewage and fecal matter, and are often found in watercourses adjacent to industrial, agricultural and other pollution sources.

Results are reported as MF count per 100 mL of sample.

#### **Background Count**

The background count estimates the number of organisms, other than coliforms, that occur in the total coliform analysis of a sample. The results are used in the interpretation of total coliform counts. High background counts are generally indicative of poor water quality.

### Fecal Coliform and Fecal Streptococcus (Enterococcus) Organisms

Fecal coliform and Enterococcus organisms are generally found in the alimentary tract of warm-blooded animals. They are indicative of sanitary waste intrusion and/or fecal contamination from warm-blooded animals.

#### Pseudomonas aeruginosa

Pseudomonas aeruginosa, are pathogens found in sewage, that can be readily isolated. These organisms are sometimes found in bathing waters and are the major pathological agent in otitis externa (ear aches) and other skin infections.

#### Escherichia Coliform (E. Coli)

E. Coli is the predominant, facultative bacterial species in the large bowel and is thus the coliform most directly related to fecal pollution. E. Coli is occasionally pathogenic to man (e.g. urinary tract infections) but is primarily an indicator organism in water bacteriology.

## **2. CHEMICAL AND PHYSICAL ANALYSES**

### Biochemical Oxygen Demand (BOD)

In itself, BOD is not a pollutant and presents no direct harm to the aquatic environment. It is, however, a measure of the unstable organic matter present in water which, through aerobic decomposition, oxidizes to a stable inorganic form utilizing the oxygen resources of a watercourse. The level of BOD is an important parameter in assessing the potential concentrations of dissolved oxygen in water.

Five-day biochemical oxygen demand (BOD<sub>5</sub>) is a laboratory measurement of the amount of oxygen consumed in a sample incubated for five days at 20°C.

### Total Phosphorus

Phosphorus is a primary nutrient for plant and animal life and like nitrogen passes through cycles of decomposition and photosynthesis. This element is commonly found in nature in the form of inorganic phosphates and organically bound phosphorus. Total phosphorus includes orthophosphate, condensed phosphates and organically bound phosphorus in both the dissolved and particulate form. Untreated or treated sewage, some industrial wastes and agricultural and urban drainage contain significant concentrations of phosphorus.

Although there is no firm criterion for phosphorus, it is generally considered that to eliminate excessive plant growths in rivers and streams, total phosphorus should not exceed 0.03 mg/L. To avoid nuisance concentrations of algae in lakes, average total phosphorus concentrations for the ice free period should not exceed 0.02 mg/L.

### Filtered Reactive Phosphate

Filtered reactive phosphate is that phosphorus which passes through a 1-2 micrometre filter and responds to a colorimetric orthophosphate determination. It is a combination of simple orthophosphate and readily hydrolyzed phosphate primarily in the dissolved form.

Filtered reactive phosphate is generally considered to be readily available for aquatic plant growth.

### Filtered Ammonia Nitrogen

Filtered ammonia nitrogen (ammonia  $\text{NH}_3$  and ammonium  $\text{NH}_4^+$ ) is the soluble product in the anaerobic decomposition of nitrogenous organic matter. It is also formed when nitrites and nitrates are reduced either biologically or chemically. Small amounts of ammonia nitrogen may be taken out of the atmosphere by rain water.

River which are considered unpolluted generally have filtered ammonia levels of less than 0.1 mg/L.

### Total Kjeldahl Nitrogen

Total Kjeldahl nitrogen is a measure of the total nitrogenous matter present, excluding nitrate and nitrite. The total Kjeldahl nitrogen concentration, less the ammonia nitrogen concentration, gives a measure of the organic nitrogen present.

Ammonia and organic nitrogen are important in assessing the availability of nitrogen for biochemical utilization. In unpolluted rivers, the normal range for total Kjeldahl nitrogen is 0.1 to 0.5 mg/L.

### Filtered Nitrite

Nitrite is an intermediate oxidation product of ammonia and also an intermediate form in the denitrification process from nitrate to nitrogen gas. The significance of nitrites, therefore, varies with their amount, source and relation to other constituents of samples (notably the relative magnitude of ammonia and nitrate present).

Since nitrite is rapidly and easily converted to nitrate, its presence in concentrations greater than a few micrograms per litre is generally indicative of active biological processes in the water.

### Filtered Nitrate

Nitrate is the end product of the stabilization of organic nitrogen which occurs primarily through aerobic biochemical processes. Nitrate is usually found in polluted waters that have undergone some degree of self-purification. Nitrates can also occur in watercourses intercepting drainage from fertilized agricultural areas.

Nitrogen in the form of nitrate is readily utilized by aquatic plants and algae. In unpolluted rivers, the nitrate nitrogen concentration is generally less than 0.5 mg/L.

### Inorganic Nitrogen

Inorganic nitrogen is a calculated value and represents the sum of the concentrations of filtered ammonia nitrogen and filtered (nitrate plus nitrite) nitrogen.

### Organic Nitrogen

Organic nitrogen is a calculated value and represents the difference between the concentrations of total Kjeldahl nitrogen and filtered ammonia nitrogen.

### Total Nitrogen

Total nitrogen is a calculated value and represents the sum of the concentrations of total Kjeldahl nitrogen and filtered (nitrate plus nitrite) nitrogen. Nitrogen is a common constituent of decomposition products, treated sewage, fertilizers and industrial discharges. Nitrogen compounds are present in most plant and animal materials.

### Solids

Total, suspended and dissolved solids are presented as separate parameters in this report. The solids analyses are gross measurements of the amounts of particulate matter and dissolved materials found in water. Solids enter the watercourse from virtually every source, the most familiar being sewage treatment plant effluents, municipal storm drainage, industrial discharges and erosion.

Solids significantly affect water uses. Highly turbid water is undesirable for municipal and industrial supply, fish and aquatic life, recreation and aesthetics. Suspended solids can also transport significant quantities of organic and inorganic trace contaminants.

### Conductivity

The conductivity test provides a measure of the electrolytic properties of water. The presence of dissolved ions (in solution) such as chlorides, sulphates and calcium, renders water conductive.

Conductance, the reciprocal of resistance, is recorded in the unit mho and in order to avoid inconvenient decimals, data are reported in micromhos per cubic centimetre. In many waters there is a direct linear relationship between dissolved solids concentrations and conductivity.

Conductivity serves as a control parameter and is an excellent indicator of water-quality changes since it is relatively sensitive to variations in dissolved-solids concentrations.

### Turbidity

The turbidity of water is attributable to suspended and colloidal matter such as micro-organisms, detritus, clay and other mineral substances which reduce clarity and diminish the penetration of light.

Turbidity is undesirable in surface waters used for domestic and industrial supply and for recreation. Often some of the suspended matter has to be removed to prevent interference with disinfection processes and abrasion to equipment. By interfering with the penetration of light, turbidity can seriously affect aquatic biological communities.

### Chlorides

Chlorides are found in practically all natural waters. They may be of natural mineral origin but in general the largest contributions can be traced to domestic sewage discharge, municipal storm drainage, road salting, and industrial wastes.

While not harmful to health in moderate quantities, high concentrations of chlorides make water unfit for municipal and industrial supplies and livestock watering. In addition to imparting an objectionable taste to water, high chloride levels are responsible for increased corrosiveness of water. Furthermore, chloride, being toxic to many plants, may render water undesirable for irrigation.

### **Sulphate**

Sulphates may occur naturally in waters and may be contained in industrial wastes. They are produced from the final oxidation stage of sulphides, sulphites and thiosulphates. Sulphates, under anaerobic conditions, can be reduced to hydrogen sulphide which is malodorous (the odour of rotten eggs) and highly corrosive.

High concentrations (between 150 and 500 mg/L) in drinking water may be cathartic to humans.

### **Sulphide**

Sulphide is formed by bacterial reduction of sulphate and organic sulphur compounds under anaerobic conditions. It is therefore, commonly found in domestic wastewater, industrial wastewater, sludges, hypolimnions of stratified lakes and any other aquatic systems where anaerobic conditions prevail. As a result, concentrations in surface waters are negligible.

Sulphide is an important parameter in waste treatment monitoring. Oxidation of sulphide to sulphuric acid in concrete sewer pipes leads to "crown corrosion". Soluble sulphides in excess of 200 mg/L are toxic to bacteria and will inhibit sludge digestion.

### **Unfiltered Reactive Silicate**

Silicon occurs in sand or quartz as silica and as silicates in feldspar, kaolinite and other minerals. Silicon dioxide, or silica, is insoluble in waters or acids, except hydrofluoric acid, but it may occur in natural waters as finely divided or colloidal suspended matter. Silica is widely employed in industry for making glass, silicates, ceramics, abrasives, enamels, petroleum products, etc.



In concentrations found in natural and treated waters, silica or silicates have no adverse physiological effects. Silicates are essential to the growth of many aquatic organisms.

The data which appear under the heading "Reactive Silicate" should properly be referred to as "Unfiltered Reactive Silicate" and are reported as Silicon (Si). Data in this series of publications prior to 1975 were reported as Silica ( $\text{SiO}_2$ ).

### Acidity

Acidity in surface or ground waters may be attributable to natural causes, such as humic acids extracted from swamps or peat beds, or industrial wastes such as pickling liquors, effluent from the manufacture of explosives, acid mine drainage or sulphite waste liquors. It may also be affected by atmospheric inputs.

Acidity is best interpreted in conjunction with the pH and alkalinity, as well as any other analyses which identify the acidic components of water.

### Alkalinity

Alkalinity is a measure of a water's capacity to neutralize an acid. The alkalinity of natural waters is caused by three major classes of materials which may be ranked in order of their effect on pH as follows:

1. Hydroxides (rarely present in Ontario)
2. Carbonates
3. Bicarbonates and other salts of weak acids

The alkalinity of water has little sanitary significance but is of importance in water and waste treatment practices. Waters with high alkalinity are undesirable because of their associated excessive hardness.

## pH

The symbol pH is used to designate the logarithm (base 10) of the reciprocal of the hydrogen-ion concentration. It is an index of the acidity or alkalinity of the solution. The practical pH range extends from 0, very acidic, to 14, very alkaline, with the middle value of pH 7 corresponding to exact neutrality at 25°C.

The pH is important in determining the treatment of water supplies.

## Iron

Iron is one of the most abundant elements in the earth's crust and it is a constituent of many industrial wastes.

When sufficient iron is added to water in the form of salts (chlorides, nitrates, sulphates), ferrous to ferric precipitates (iron hydroxides) tend to form, causing low pH values which are toxic to aquatic life. Iron in water may also result in the growth of iron bacteria causing unpalatable tastes, discolouration of cloths and plumbing fixtures, and the formation of scales in water mains.

## Phenols

The phenolic compounds, collectively referred to as phenols, are those hydroxyl derivatives of benzene or its condensed nuclei, which are determined by the 4-amino antipyrine method. The results are reported from many industrial processes and may also be released from aquatic plants and decaying vegetation.

Depending on the concentration, the presence of phenolic compounds may be toxic to fish, and may taint the flesh of fish. Phenols in very minute concentrations will combine with chlorine to produce tastes and odours which are usually described as medicinal or chemical.

## Hardness

Water hardness relates to a water's capability to produce lather from soap. The higher the hardness, the less lather will be formed.

Hardness in water is caused by dissolved divalent metal ions, calcium and magnesium being the most common. Natural hardness occurs most frequently in limestone areas. The limestone is dissolved by contact with ground and surface water and releases calcium ions and traces of contaminant metals.

Hard water, though not considered a health hazard, is undesirable for industrial and domestic water supplies because it has a number of detrimental effects, the most common being the formation of scale in boilers, pipes and water heaters; excessive soap consumption in home and commercial laundering; and adverse affects in textile, plating and canning industries.

Results appear under either the heading "Hardness" and "Calculated Hardness", depending on the analytical procedure. The former results are obtained through titration with ethylenedi-aminetetra- acetic acid (EDTA), the latter by calculation from magnesium (Mg) and calcium (Ca) results determined by Atomic Absorption Spectrophotometry (AAS).

## Calcium

Calcium is relatively abundant in the earth's crust and readily soluble in water so that calcium salts and calcium ions are among the most commonly encountered substances in water. They may result from the leaching of soil and may be contained in sewage and industrial wastes.

Excessive calcium and magnesium in drinking water have been implicated as factors predisposing to the formation of concretions in the body, such as kidney, or bladder stones. On the other hand, there is also evidence of adverse physiological effects from an insufficiency of calcium in water. The calcium ion is a major contributor to hardness and is often responsible for boiler scale deposits on cooking utensils

and excessive soap requirements in washing and laundering. Where water is used for irrigation, calcium is beneficial to plant growth.

### Magnesium

Magnesium is an abundant element and a common constituent of natural waters. Magnesium ranks with calcium as a major cause of hardness. The effects of magnesium of water used for consumption and irrigation are generally the same as those of calcium. Magnesium is considered relatively non-toxic to man and not a public health hazard because before toxic concentrations are reached in water, the taste becomes quite unpleasant.

### Colour

Colour in water may be of natural mineral or vegetable origin caused by metallic substances such as iron and manganese compounds, humus material, peat, tannins, algae, weeds, and protozoa. Waters may also be coloured by inorganic or organic soluble wastes from industries, such as steelworks, mining, refining, pulp and paper, chemicals, and others. Returned irrigation water also contributes to colour.

Colour from natural origin is not considered harmful from a health standpoint. However, in domestic water, colour is undesirable from aesthetic considerations.

### Potassium

Potassium occurs in many minerals and potassium salts exist in natural waters as a result of contact with potassium-bearing soils and the introduction of certain industrial wastes. The common salts of potassium are highly soluble in water. They resist separation from water by natural processes other than evaporation.

In limited concentrations, potassium is an essential nutrient. Excessive amounts of certain potassium salts in drinking water have detrimental effects on human digestive and nervous systems.

### Sodium

Sodium salts are common to all natural waters and may be present in high concentrations in wash waters softened by exchanging calcium and magnesium ions for sodium. Sodium is also found in many industrial process effluents, domestic wastes and salts used in road de-icing.

The presence of sodium salts in drinking water may present a health hazard to a person with circulatory, renal and cardiac problems and may cause digestive problems in animals and otherwise healthy human beings. Concentration of salts such as sodium chloride impact objectionable tastes and may render water unpalatable.

### Total Organic Carbon (TOC)

Total organic carbon (TOC), the most significant carbon measurement from a water-quality assessment viewpoint, is the arithmetic difference between total carbon (TC) and total inorganic carbon (TIC).

Total organic carbon usually has a direct relationship with Biochemical Oxygen Demand (BOD) and Chemical Oxygen Demand (COD) values, but the relationship varies with the composition of the organic material present. The carbon tests are rapid and suitable for the evaluation of organic pollution levels, assessment of waste treatment efficiencies and to a limited extent, the potential demand of a waste discharge on the oxygen resources of a water body.

### Dissolved Organic Carbon (DOC)

The organic content of lakes and rivers depends primarily on the products of plants and animals which those water bodies support. Most of the organic carbon in water is composed of humic substances and partly degraded plant and animal materials, some of which is resistant to microbial degradation. Runoff from agricultural land and industrial discharge from industries such as pulp and paper will add organic carbon to the water. The degradation of large amounts of organic matter causes depletion of the dissolved oxygen concentration and hence, organic carbon is also measured on sewage and industrial waste samples. In natural waters, the organic carbon content will usually be less than 30 mg/L.

### Chemical Oxygen Demand (COD)

The chemical oxygen demand is used in measuring the strength of sewage and industrial wastes. The major advantage of this test is that laboratory results can be obtained in about three hours compared to five days for the five-day biochemical oxygen demand test. The chief limitation of the COD analysis is its inability to differentiate between biologically oxidizable and biologically inert organic matter. The COD almost always exceeds the biochemical oxygen demand.

### Solvent Extractables

The solvent extractable test measures the total quantity of substances present in a water sample that is readily soluble in an appropriate organic solvent. Such substances include fatty acids, petroleum products, oils, greases and resins. They are generally found in effluents of oil refineries, meat packing plants, slaughter houses, dairies, canneries, and a variety of other industries.

Solvent soluble materials greatly increase the oxygen depletion rate in receiving waters and will hinder oxygen exchange with the atmosphere by forming slicks.

### Arsenic

Arsenic may occur, naturally, to a small extent, mostly as sulphides and as arsenides of metals. Elemental arsenic is insoluble in water but many of the arsenates are highly soluble. Highest levels of arsenic in Ontario are found in watercourses downstream of wastewater discharges from metal smelting operations.

Arsenic is very toxic to humans and the trivalent forms are largely retained in the body tissues. Low concentrations of arsenic stimulate plant growth but higher concentrations destroy chlorophyll in the foliage.

### Mercury

Mercury may occur naturally as a free metal or as mercuric salts, the most common being cinnabar, HgS. Both elemental mercury and HgS are insoluble in water and are not likely to occur as water pollutants. Many synthetic organic salts of mercury are used commercially and these salts are highly soluble in water.

Mercury is cumulative and toxic to humans and can be concentrated and transferred up the food chain to a point where commercial and game fish may become unsuitable for human consumption. Micro-organisms can methylate inorganic mercury under both aerobic and anaerobic conditions to produce a more toxic substance.

### Aluminium

Aluminium occurs in many rocks and ores but never as a pure metal in nature. In streams, the presence of aluminium ions may result from industrial wastes or more likely from wash water from water treatment plants.

Aluminium in a public water supply is not considered a public health problem, since no evidence has been found to prove that aluminium in water supplies is harmful to human beings.

## Chromium

Few waters contain chromium from natural sources since chromium is generally present in rocks and soils as insoluble chromic oxide which is strongly sorbed to particulate matter. Chromate or dichromate salts are used extensively in metal pickling and plating operations, in anodizing aluminium, in the leather industry as a tanning agent, and in the manufacture of paints, dyes, explosives, ceramics, paper and many other substances. Chromic or chromite salts on the other hand, are used much less extensively being employed as mordants in textile dyeing, in the ceramic and glass industry and in photography. Chromium compounds may be present in wastes from many of the foregoing industries or may be discharged in chromium-treated cooling waters where the chromium is used as a corrosion inhibitor.

There is no evidence that chromium salts are essential or beneficial to human nutrition. Salts of trivalent chromium are not considered to be physiologically harmful; however, large doses of chromates lead to corrosive effects in the intestinal tract and to nephritis. Both the chromic and chromate ions are toxic to plants and interfere with the uptake of essential elements.

## Copper

Copper salts occur in natural surface waters in trace concentrations and may occur in industrial waste discharges. Copper is used as an algicide for the control of undesirable algae growth and in the treatment of soils as a fungicide and a pesticide.

Copper compounds are toxic to plants and aquatic life. Prolonged ingestion may cause liver damage in man.



## Lead

Some natural waters contain lead in solution. Lead may be introduced into water as a constituent of various wastes including industrial and mining effluents, lead plumbing and automobile exhaust. Certain lead salts, such as acetate and chloride, are readily soluble. However, lead which occurs in the carbonate, hydroxide and sulphate forms is sparingly soluble and will not remain long in natural waters.

Lead is a cumulative poison that tends to be deposited in the bone. The intake that can be regarded as safe cannot be stated definitely because the sensitivity of individuals to lead differs considerably. Studies on fish indicate that in water containing lead salts, a film of coagulated mucus forms over the gills and then the entire body, probably as a result of a reaction between lead and an organic constituent of mucus. The fish then die of suffocation. The toxic effects of lead on fish decreases with increasing hardness and dissolved oxygen.

## Cadmium

In the elemental form, cadmium is insoluble in water. It occurs in nature largely as a sulphide salt, greenockite or as a cadmium blend and often as an impurity in zinc-lead ores.

Cadmium salts are cumulative and highly toxic to man having been implicated in some cases of food poisoning. Consumption of cadmium salts causes cramps, nausea, vomiting, and diarrhea. Cadmium affects reproduction in fish and zooplankton; however, the toxic effects vary with species and time of exposure.

## Zinc

Generally, zinc occurs only in trace amounts in surface waters. The zinc ion is believed to adsorb strongly and permanently on particulate matter (e.g. silt) which settles out of suspension.

Zinc has no known adverse physiological effects upon man except at very high concentrations. At such concentrations, zinc gives water a milky appearance and causes a greasy film on boiling, thus making it unattractive for domestic water supply. Zinc is toxic to aquatic organisms and its toxicity decreases with increasing hardness.

### **Manganese**

Manganese is similar to iron in that it is found in many industrial wastes and occurs in soils as manganic and manganous compounds. Under anaerobic conditions the manganic ion is reduced to soluble nitrate, sulfate, and chloride salts of manganese and is leached, along with iron, into ground and surface waters. Its presence like iron, may indicate domestic or industrial pollution.

Water with high manganese content is undesirable for its taste, colour and tendency to form deposits on cooking utensils.

### **Nickel**

Nickel in ores and minerals is insoluble but as a salt (nickel ammonium sulphate, nickel nitrate, nickel chloride) is highly soluble. Electroplating wastes may contain substantial amounts of nickel salts.

Nickel and its salts have generally proven to be non-toxic to man even at very high levels. Contact with nickel salt solutions may result in dermatitis and repeated inhalations of nickel compounds can cause lung cancer. Levels of 0.1 mg/L have been reported to adversely affect plant life.

### **Fluoride**

Fluorides in high concentrations are not a common constituent of natural surface waters, but may naturally occur in detrimental concentrations in ground waters.

A condition known as "mottled enamel" (dental fluorosis) may occur when the concentration of fluoride ion in drinking water is in excess of 1.0 mg/L; however, small quantities have proven to be beneficial in reducing tooth decay. Excess concentrations affect animal breeding efficiency and may have detrimental effects on some plants.

### Cyanide

Cyanides are likely to occur in effluents from gas works and coke ovens, from the scrubbing of gases produced from blast furnaces, in wastes from the surface cleaning of various metals, and in electroplating processes and other chemical industries.

Cyanide in water is toxic to biological life, the lethal concentration depending on water quality, temperature and type and size of organism.

### Cobalt

Cobalt occurs naturally in the minerals cobaltite, smaltite and erythrite. It is widely used in the manufacture of alloys, the tungsten carbide tool industry and as pigments used in glass staining.

Cobalt is an essential element at trace levels for both animals and plant nutrition. It is known to be one of the main constituents of Vitamin B<sub>12</sub>. Adverse effects due to cobalt are very slight even at high concentrations. No limits have been set on the maximum acceptable concentration for cobalt in domestic water supplies.

## **3. RADIOCHEMICAL ANALYSES**

All elements are made up of atoms, each of which consists of a central nucleus surrounded by a number of electrons. Some nuclei are radioactive; they emit excess energy in the form of ionizing radiation as a result of nuclear disintegrations. The three types of ionizing radiations which are of principal interest in environmental studies are referred to as alpha, beta and gamma radiations.

1. Alpha rays are streams of fast moving helium nuclei. These are particles which can travel only a few centimetres in air and can be stopped by a sheet of paper or a layer of skin.
2. Beta rays are streams of fast moving electrons which are very much lighter than helium nuclei. The maximum range of most common beta rays is a few metres in the air or one to two centimetres in the human body.
3. Gamma rays are highly penetrating electromagnetic radiation of the same family as radio waves and x-rays. Like x-rays, gamma mass rays can pass right through the human body.

The number of nuclear disintegrations occurring in a substance per second is a measure of its radioactivity. The unit of radioactivity used in this report is becquerel (Bq). One becquerel equals one nuclear transformation per second and corresponds to approximately 27 picocuries. Radiological half life is the length of time required for one half of the unstable atom to disintegrate or change (i.e. radioactive decay).

Exposure to radiation is characterized by the transfer of energy to molecules of the cells which make up body tissues and organs. This can affect the normal function of the cells, resulting in damage to the tissues and organs. Exposure to the small doses of radiation which might be encountered in the environment will not result in immediate detectable damage; however, long-term effects may result. These effects are in apparently random occurrence of induced cancers and genetic defects in a small proportion of the exposed population. The numbers of effects induced are considered to be directly proportional to the amount of absorbed radiation.

### Gross-alpha

Gross-alpha is a measure of the total radioactivity of all the alpha emitting materials in a sample. Measurements of gross-alpha activity provide useful reference points to enable trends to be detected. However, the results cannot be used to determine radiation dose or

health effects since the short range of alpha particles means that some will not be detected, thereby causing an underestimation of the total activity. Also, the alpha particles may be emissions from a mixture of materials that are radiologically and biologically different.

### Gross-beta

Gross-beta is a measure of the total radiation of all the beta emitting materials in a sample. Measurements of gross-beta activity provide useful reference points to enable trends to be detected but cannot be used to determine radiation dose or health effects.

### Radium-226

Radium-226 is a naturally occurring alpha-particle emitter formed from the decay of uranium-238 and has a radiological half life of 1602 years.

### Uranium-total

Total uranium exists primarily as the isotope uranium-238 with less than 1% occurring as uranium-235. Uranium is a naturally occurring alpha-particle emitter which was formed at the same time as the earth (about  $5 \times 10^9$  years) and is still present in significant quantities due to its extremely long radiological half-life ( $4.5 \times 10^9$  years).

### Cesium-137

Cesium-137 is a beta-particle emitter formed as a fission product in nuclear weapons detonation and atomic reactor operation. Cesium-137 is readily adsorbed and retained by biological systems. Its radiological half life is 30 years.

### Cesium-134

Cesium-134 is a beta-particle emitter also formed as a fission product in nuclear weapons detonation and atomic reactor operation. Cesium-134 is of less importance than Cesium-137 as its radiological half-life is only 72 hours.

### Cobalt-60

Cobalt-60 is primarily formed in atomic reactor operation due to the neutron activation of trace quantities of cobalt-59 found in steel. Insignificant quantities are also formed from nuclear weapons detonation. Cobalt-60 has a radiological half life of 5.3 years and emits both beta and gamma radiation.

### Tritium

Tritium exists fairly uniformly in the environment as a result of natural production by cosmic radiation and residual fallout from nuclear weapons tests. This background level is gradually being increased by the use of nuclear reactors to generate electricity.

Current tritium from the nuclear power industry comprises a small proportion of environmental tritium in comparison with that from nuclear weapons fallout and naturally produced tritium. However, nuclear reactors and fuel-processing plants are localized sources of tritium because of discharges during normal operation. This industry is expected to become the major source of environmental tritium contamination some time in the future if present growth trends continue and nuclear explosion in the atmosphere are not resumed. Tritium is produced in light water nuclear reactors by ternary fission, neutron capture in coolant additives, control rods and plates, and activation of deuterium. About 1% of the tritium in the primary coolant is released in gaseous form to the atmosphere; the remainder is eventually released in liquid waste discharges. Most of the tritium produced in reactors remains in the fuel and is released when the fuel is reprocessed.

Naturally occurring tritium is most abundant in precipitation and lowest in aged water because of its physical decay by beta emission to helium.

### Iodine

Iodine is a chemical oxidant. It disinfects in a manner similar to chlorine. Iodine is the least soluble of all the halogens, hence it is the least likely to be hydrolyzed by water. It also has the lowest oxidation potential; that is, reacting more slowly with organic

compounds than chlorine. Because of this stability, iodine does not react with nitrogenous compounds as does chlorine. Iodine remains effective through a wider range than does chlorine; chlorine becomes less stable at pH of 8 as compared to iodine at pH of 10.

#### 4. SYNTHETIC ORGANIC ANALYSES

The synthetic organic compounds referred to in this section are classified as pesticides and industrial chemicals. These compounds contain linked carbon atoms in their chemical structure and are, for the most part, synthesized from common chemicals. Furthermore they may be subdivided into chemical families of compounds sharing common characteristics. For example, organochlorine compounds (chlorinated hydrocarbons) contain chlorine, hydrogen and carbon in their structure; they have a tendency to accumulate in the fatty tissues of animals and are stable compounds (i.e. persistent).

Until recently, only a few classes of compounds such as drugs, food additives and pesticides were controlled by legislation. For example, the only pesticides which may be offered for sale in Ontario are those which have been registered under the authority of the Pest Control Products Act which is administered by Agriculture Canada. The term pesticide includes insecticides, herbicides and fungicides which are chemical compounds used to control insects, weeds or fungi (i.e. "pests") that attack crops, animals and man. In contrast to the regulation of pesticides, thousands of unregistered synthetic organic chemicals are in daily use as raw materials, products and additives. Very little is known about their possible health and environmental effects because of their sheer number and diversity of use. Many are not hazardous, but the adverse effects already encountered by some have created concern for preventative measures of both known and potentially hazardous substances.

##### Polychlorinated Biphenyls (PCBs)

PCBs are a range of industrial chemicals produced by direct chlorination of biphenyl. The North American products in this family are sold under the name Arochlor. Arochlors are characterized by a four digit number (e.g. Arochlor 1242, Arochlor 1254 of which the last two digits refer to

the weight percentage of chlorine in the products. There are 208 possible compounds which could be formed by this reaction. Each product is a different mixture of up to 100 of these, each with its own unique physical, chemical and biological properties.

The main characteristics of PCBs are their chemical, physical, biological inertness and electrical insulating properties. They have been widely used in transformers, capacitors, as heat exchange fluids, plasticizers, in inks, paint, lubricants, and many other products. Spills and waste disposal practices have resulted in very large inputs of these chemicals to all facets of the environment.

PCBs are lipophylic and thus continuing environmental inputs have led to biological uptake and concentration. Of particular concern are the excessive levels detected in some fish. Levels in water and air to date have not demonstrated a threat to human health, as might arise from fish consumption. PCBs have been shown to be both acutely and chronically toxic, carcinogenic and teratogenic. Limits for human consumption have been set based on tests on monkeys and rats. The present acceptable level of PCBs in fish is 2.0 ppm. However, for protection of the fisheries resource from reproductive failure, 0.1 ppm has been suggested. Long-term use of PCBs, at elevated temperatures, and inefficient incineration of these materials have been shown to produce the highly toxic chlorodibenzofurans, closely related to dioxins.

#### Trichlorophenoxyacetic Acid (2,4,5-T)

2,4,5-T is a chlorophenoxy acid herbicide. Other members of this family include 2,4-D and 2,4,5-TP which were introduced as selective weed killers at the end of World War II. Their uses include weed control in cereal crops, lawns, along roadsides, hydro and railroad rights-of-way and control of aquatic weeds.

The human toxicity of these herbicides is low; effects on farmstock and wildlife from current environmental levels would appear to be negligible and no discernible toxic effects have been reported in fish at levels below 100 mg/L.



However, 2,3,7,8-tetrachlorodibenzodioxin (TCDD), an extremely toxic compound, has been detected in 2,4,5-T formulations as a by-product of its manufacture, thus raising doubts as to the human safety of the use of 2,4,5-T, and the related herbicide 2,4,5-TP (Silvex). A tolerance level of 0.1 ppm 2,3,7,8-TCDD in 2,4,5-T formulation has been set, but the adequacy of the safety factor is still under discussion.

### Pentachlorophenol (PCP)

Pentachlorophenol is used as a herbicide, defoliant, insecticide, fungicide and wood preservative. The salts, esters and ethers of PCP are also effective herbicides.

PCP is considered relatively toxic to wildlife and fish and its presence in water can cause tainting of fish flesh, reducing its palatability. PCP can be harmful to man if inhaled and absorbed through the skin. There is no known antidote to PCP poisoning.

In addition to its inherent toxicity, a further problem is posed by the presence of high chlorinated dioxins, (octachlorodioxin, heptachlorodioxin, hexachlorodioxin) in PCP formulations. Whilst considerably less toxic than 2,3,7,8-TCDD (tetrachlorodibenzodioxin), it has been suggested that these compounds may degrade to 2,3,7,8-TCDD under the influence of sunlight and other environmental conditions.

### STATION IDENTIFIER CODES, ABBREVIATED PARAMETER HEADINGS AND QUALIFYING REMARKS CODES

#### Station Identifier Codes

The station identifier codes which appear in the index and the top right-hand corner of the data pages are numerical descriptions of the sampling station locations and are used primarily for electronic data processing of the water quality data. The eleven digit figure is decoded as follows: the first two digits refer to the terminal basins (see figures 2 and 3), the following four digits refer to the river

basin (each river basin in a terminal basin is assigned a unique number), the next three digits refer to the station number within the river basin and the last two digits refer to the type of sample (e.g. 01-lake sample, 02-stream sample, 82 to 89-composite sample, e.g. 83 - 3 part composite across a station sampling range).

### Distance

The distance in kilometres is measured along the centre line of a watercourse to the sampling station location from the junction of the related terminal stream and terminal basin.

### Abbreviated Headings

BOW	body of water
STN NO	base station number
LAT	latitude
LONG	longitude
UTM	Universal Transverse Mercator Grid
SAMP DTE DY MO YR	sample date; day, month, year
HOUR LMT	hour(s) local mean time (2400 hour clock)
STN DIST FEET	distance from base station (in feet) (not applicable)
STN BRG	bearing of sampling point (deg N) from base station (not applicable)
SAMP DEPTH MTRS	sample depth (in metres)
PJ	project (not applicable)

### Abbreviated Parameter Headings

The alphabetic codes appearing as the parameter headings are a series of unique codes used for computer processing. Each alphabetic code identifies a particular water quality parameter and analytical procedure.

Test Name and Abbreviated Description	Description of Test	Units of Measure
ACDT ACIDITY TOTAL	ACIDITY, TOTAL	MILLIGRAM PER LITRE AS CALCIUM CARBONATE
ALKT ALK TOTAL	ALKALINITY, TOTAL	MILLIGRAM PER LITRE AS CALCIUM CARBONATE
ALUT ALUMINUM UNF. TOT.	ALUMINIUM, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS ALUMINIUM
ASUT ARSENIC UNF. TOT.	ARSENIC, UNFILTERED TOTAL	MILLIGRAM PER LITRE
AS3UR ARSENTE UNF. REAC.	ARSENIC +3 UNFILTERED REAC.	MILLIGRAM PER LITRE AS ARSENIC
AS5UR ARSENATE UNF. REAC.	ARSENIC +5, UNFILTERED REAC.	MILLIGRAM PER LITRE AS ARSENIC
BOD <sub>5</sub> 5 DAY TOT. DEM.	BOD, 5 DAY, TOTAL DEMAND	MILLIGRAM PER LITRE AS OXYGEN
CAUR CALCIUM UNF. REACT.	CALCIUM, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS CALCIUM
CCNAUR CYANIDE AVAIL UNF. REACT.	CYANIDE, AVAILABLE UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS HYDROGEN CYANIDE
CCNFUR FREE UNF. REACT.	CYANIDE, FREE UNFIL. REACTIVE	MILLIGRAM PER LITRE AS HYDROGEN CYANIDE
CCUT CARBON UNF TOT.	CARBON, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS CARBON
CDUT CADMIUM UNF. TOT.	CADMIUM, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS CADMIUM

Test Name and Abbreviated Description	Description of Test	Units of Measure
CLIDUR CHLORIDE UNF. REAC.	CHLORIDE, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS CHLORINE
COD CHEM. OX. DEMAND	CHEMICAL OXYGEN DEMAND	MILLIGRAM PER LITRE AS OXYGEN
COLAP COLOUR APPARENT	COLOUR, APPARENT	HAZEN COLOUR UNIT
COLTR COLOUR TRUE	COLOUR, TRUE	HAZEN COLOUR UNIT
COND25 CONDUCT. 25C	CONDUCTIVITY AT 25°C	MICROMHOS/CM (CONDUCTIVITY) AT 25 DEGREES CENTIGRADE
COUT COBALT UNF. TOT.	COBALT, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS COBALT
C060 COBALT 60	COBALT 60	BECQUEREL PER LITRE
CRUT CHROMIUM UNF. TOT.	CHROMIUM, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS CHROMIUM
CS134 CESIUM 134	CESIUM 134	BECQUEREL PER LITRE
CS137 CESIUM 137	CESIUM	BECQUEREL PER LITRE
CUUT COPPER UNF. TOT.	COPPER, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS COPPER
DO DISSOLVED OXYGEN	DISSOLVED OXYGEN	MILLIGRAM PER LITRE AS OXYGEN

Test Name and Abbreviated Description	Description of Test	Units of Measure
DOC CARBON DISSOLVED ORGANIC	CARBON, DISSOLVED ORGANIC	MILLIGRAM PER LITRE AS CARBON
ECMF ESCH IA COLI MF	ESCHERICHIA COLIFORM, MEMBRANE FILTRATIONS TECHNIQUE	COUNTS PER 100 ML
FCMF FECAL COLIFORM MF	FECAL COLIFORM MEMBRANE FILTRATION TECHNIQUE	COUNTS PER 100 ML
FEUT IRON UNF. TOT.	IRON, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS IRON
FFIDUR FLUORIDE UNF. REAC.	FLUORIDE, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS FLUORINE
FSMF FECAL STREPCUS MF	FECAL STREPTOCOCCUS, MEMBRANE FILTRATION TECHNIQUE	COUNTS PER 100 ML
FWFLOW STREAM FLOW	STREAMFLOW	CUBIC METRE (1000L) PER SECOND
FWPH PH FIELD	PH, FIELD	NEGATIVE LOGARITHM OF HYDROGEN ION CONCENTRATION
FWSTRC STREAM COND.	STREAM CONDITION	NOT APPLICABLE
FWTEMP WATER TEMP.	TEMPERATURE, WATER	DEGREES CELSIUS

Test Name and Abbreviated Description	Description of Test	Units of Measure
GACF GROSS ALPHA CT. FILTERED	GROSS ALPHA CT., FILTERED	BECQUEREL PER LITRE
GACP GROSS ALPHA CT UNDISSOL.	GROSS ALPHA CT., UNDISSOLVED	BECQUEREL PER LITRE
GBCF GROSS BETA CT. FILTERED	GROSS BETA CT., FILTERED	BECQUEREL PER LITRE
GBCP GROSS BETA CT. UNDISSOL.	GROSS BETA CT., UNDISSOLVED	BECQUEREL PER LITRE
HARDT HARDNESS TOTAL	HARDNESS, TOTAL	MILLIGRAM PER LITRE AS CALCIUM CARBONATE
HGUT MERCURY UNF. TOT.	MERCURY, UNFILTERED TOTAL	MICROGRAM PER LITRE AS MERCURY
HH3 TRITIUM HYDROG-3	TRITIUM, (HYDROGEN 3)	BECQUEREL PER LITRE
II131 IODINE 131	IODINE 131	BECQUEREL PER LITRE
KKUR POTASSIUM UNF. REAC.	POTASSIUM, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS POTASSIUM
MGUR MAGNESIUM, FIL. REAC.	MAGNESIUM, FILTERED REACTIVE	MILLIGRAM PER LITRE AS MAGNESIUM
MNUT MANGANESE, UNF. TOT.	MANGANESE, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS MANGANESE

Test Name and Abbreviated Description	Description of Test	Units of Measure
NAUR SODIUM UNF. REAC.	SODIUM, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS SODIUM
NIUT NICKEL UNF. TOT.	NICKEL, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS NICKEL
NNHTFR NH3-N TOTAL FIL. REAC.	AMMONIUM, TOTAL FILTERED REACTIVE	MILLIGRAM PER LITRE AS NITROGEN
NNKI TOTAL N	TOTAL NITROGEN: SUM OF NITRATE NITRITE AND KJELDAHL-NITROGEN	MILLIGRAM PER LITRE AS NITROGEN
NNKUR KJELDAHL ORGANIC UNF. REAC.	KJELDAHL-NITROGEN, ORGANIC UNFILTERED REACTIVE	MILLIGRAM PER LITRE
NNOTFR NO2+NO3N FIL. REACT.	NITRATES, TOTAL FILTERED REACTIVE	MILLIGRAM PER LITRE AS NITROGEN
NNOTUR NO1+NO3N UNF, REAC.	NITRATES, TOTAL UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS NITROGEN
NNO2FR NO2-N FIL. REAC.	NITRITE, FILTERED REACTIVE	MILLIGRAM PER LITRE AS NITROGEN
NNTIFR INORG. N. TOTAL FIL. REAC.	NITROGEN, TOTAL INORGANIC FILTERED REACTIVE	MILLIGRAM PER LITRE
NNO2UR NO2-N UNF. REAC.	NITRITE, UNFILTERED REACTIVE	MILLIGRAMS PER LITRE AS NITROGEN

Test Name and Abbreviated Description	Description of Test	Units of Measure
NN03FR N03-N FILT. REAC.	NITRATE, FILTERED REACTIVE	MILLIGRAM PER LITRE AS NITROGEN
NN03UR N03-N HNF. REAC.	NITRATE, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS NITROGEN
NNTKUR K'DAHL N TOTAL UNF. TOT.	NITROGEN, TOTAL KJELDAHL UNFIL. REACTIVE	MILLIGRAM PER LITRE AS NITROGEN
PBUT LEAD UNF. TOT.	LEAD, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS LEAD
pH	pH (-LOG H+CONC), LAB.	NEGATIVE LOGARITHM OF HYDROGEN ION CONCENTRATION
PHNOL PHENOLS UNF-REAC	PHENOLICS, UNFILTERED REACTIVE	MICROGRAM PER LITRE AS PHENOL
PP04FR P04 FIL. REAC.	PHOSPHATE, FILTERED REACTIVE	MILLIGRAM PER LITRE AS PHOSPHORUS
PP04UR P04 UNF. REAC.	PHOSPHATE, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS PHOSPHORUS
PPUT PHOSPHOR UNF. TOT.	PHOSPHORUS, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS PHOSPHORUS
PSAMF PSEUDOMN AERUG, MF	PSEUDOMONAS, AERUGINOSA MEMBRANE FILTRATION TECHNIQUE	COUNTS PER 100 ML
P1PCBT PCB TOTAL	POLYCHLORINATED BIPHENOLS, TOTAL	MICROGRAM PER LITRE
P3245T 2,4,5-T	2,4,5-Trichlorophenoxyacetic	MICROGRAM PER LITRE



Test Name and Abbreviated Description	Description of Test	Units of Measure
RA226F RADIUM 226 FIL.	RADIUM-226, FILTERED	BECQUEREL PER LITRE
RA226T RADIUM 226 TOT.	RADIUM-226, TOTAL	BECQUEREL PER LITRE
RSF RESIDUE FILTERED	RESIDUE, FILTERED	MILLIGRAM PER LITRE
RSFRAD RESIDUE FILTERED RADIOLOG	RESIDUE, FILTERED RADIOLOGICAL	MILLIGRAM PER LITRE
RSP RESIDUE PARTIC.	RESIDUE, PARTICULATE	MILLIGRAM PER LITRE
RSPRAD RESIDUE PARTIC. RADIOLOG	RESIDUE, PARTICULATE RADIOLOGICAL	MILLIGRAM PER LITRE
RST RESIDUE TOTAL	RESIDUE, TOTAL	MILLIGRAM PER LITRE
SAMPLE NUMBER	SAMPLE NUMBER, FIELD	NOT APPLICABLE
S103UR SILICATE UNF. REAC.	SILICATES, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS SILICON
SOLEXT SOLVENT EXTRACT.	SOLVENT EXTRACTABLES	MILLIGRAM PER LITRE
SSIDUR SULPHIDE UNF. REAC.	SULPHIDE, UNFILTERED REACTIVE	MILLIGRAM PER LITRE
SS04UR SULPHATE UNF. REAC.	SULPHATE, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS SULPHATE

Test Name and Abbreviated Description	Description of Test	Units of Measure
TCMF COLIFORM TOTAL MF	COLIFORM, TOTAL MEMBRANE FILTRATION TECHNIQUE	COUNTS PER 100 ML
TCMFBK COLIFORM TOTAL MF BCKGRD	COLIFORM, TOTAL MEMBRANE FILTRATION TECHNIQUE BACKGROUND	COUNTS PER 100 ML
TURB TURB'ITY	TURBIDITY	FORMAZIN TURBIDITY UNIT
UU238 URANIUM 238	URANIUM 238	MILLIGRAM PER LITRE
X3PCPH PENTACHL PHENOL	PENTACHLOROPHENOL	NANORGRAMS PEC LITRE
ZNUT ZINC UNF. TOT.	ZINC, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS ZINC

## OTHER ABBREVIATIONS

ARITH MEAN	arithmetic mean
AVE.	avenue
AVG OR GEOM MN	arithmetic mean or geometric mean (denoted by *)
BLVD.	boulevard
BR.	branch, bridge or brook
CORP.	corporation
CAN.	Canadian
C.N.R.	Canadian National Railway
CO.	county or company
CONC.	concession
C.P.R.	Canadian Pacific Railway
CR.	Creek
DR.	drive
FT.	feet
GEOM MEAN	geometric mean
HWY.	highway
JNT.	junction
L.	left
MG	milligram(s)
MG/L or mg/L	milligrams per litre
ML	millilitre(s)
N.	north
NG/L	nanogram(s) per litre
NO/OF SAMPLES	number of samples
PT.	part or point
Q.E.W.	Queen Elizabeth Way
R.	river or right
RD.	road
R.R.	railroad
RW.	railway
S.	south
STD DEV	standard deviation
S.T.P.	sewage treatment plant
TWP.	township
UG/L	micrograms per litre
W.P.C.P.	water pollution control plant
WW.	water-works

An "Exponent" is used to move the decimal point to the right when the result is greater than 7 digits or to the left if the result is measured to more than three decimal places.

EXPONENT	= + 4	multiple result by	10,000
	= + 3	" " "	1,000
	= + 2	" " "	100
	= + 1	" " "	10
	= - 1	divide result by	10
	= - 2	" " "	100
	= - 3	" " "	1,000
	= - 4	" " "	10,000

## ANALYTICAL TECHNIQUES USED TO MEASURE WATER QUALITY

### Microbiological Parameters

### Analytical Technique

Total Coliforms	Membrane Filtration
Fecal Coliforms	Membrane Filtration
Fecal Streptococcus	Membrane Filtration
Pseudomonas Aeruginosa	Membrane Filtration
Background Count	Membrane Filtration

### Chemical and Physical Parameters

### Analytical Technique

Alkalinity	Auto* fixed endpoint titration
Ammonia-N (filtered total)	Auto modified Berthelot reaction
Arsenic	Flameless AAS**; colourimetry
Cadmium	AAS
Calcium	AAS; EDTA titrimetric
Carbon	Auto oxidation, colourimetry
Chloride	Auto potentiometric titration; Auto FeCNS
Chromium	AAS; colourimetry
Conductivity	25°C thermostated conductivity meter
Copper	AAS
Iron (total)	AAS; Auto TPTZ colourimetry
Lead	AAS
Magnesium	AAS; calculation from hardness, Ca
Manganese	AAS; Auto formal doxine colourimetry
Mercury	Flameless AAS
Nickel	AAS
Nitrate + Nitrite-N (filtered)	Auto hydrazine reduction-diazotization
Kjeldahl-N	Digest, Auto modified Berthelot reaction
Phosphate-P (filtered reactive)	Auto molybdenum blue-ascorbic acid
pH	Potentiometric-glass electrode
Phenolics-reactive	Auto distillation-4AAP
Phosphorus-total	Digest, Auto molybdenum blue-ascorbic acid
Phosphorus-filtered total	Digest, Auto molybdenum blue-ascorbic acid
Potassium	AAS

Selenium  
Silicates-reactive  
Sodium  
Solids-suspended  
Sulfate  
Turbidity  
Zinc

Fluorimetry  
Auto molybdenum blue-ascorbic acid  
AAS  
Gravimetric  
Auto MTB colourimetry; Ion Chromatography  
Nephelometry, formazin standard  
AAS

#### Radiochemical Parameters

Gross alpha

Nuclear disintegrations count from  
evaporated residues

Gross beta

Nuclear disintegrations count from  
evaporated residues

Radium-226

Dieminatation technique

Uranium-total

Fluorometric technique

Cesium-137

Gamma spectrometry

Cesium-134

Gamma spectrometry

Cobalt-60

Gamma spectrometry

#### Synthetic Organic Parameters

PCB

Solvent extraction, gas chromatography

2,4,5-T

Solvent extraction, gas chromatography

PCP

Solvent extraction, gas chromatography

\* Automated instrumentation

\*\* Atomic Absorption Spectrophotometry

## GLOSSARY OF TERMS

### Arithmetic Mean

- The nth quotient of the summation of n observations. The equation for the arithmetic mean ( $\bar{X}$ ) can be expressed as:

$$\bar{X} = \frac{X_1 + X_2 + X_3 + \dots + X_n}{n}$$

### Detection Limit

- The amount of analyte required to be present to ensure that when it is 'absent' it will not be reported as 'present'.

### Geometric Mean

- The nth root of the product of n observations. The equation for the geometric mean ( $G_x$ ) can be expressed as:

$$G_x = \sqrt[n]{X_1 \times X_2 \times \dots \times X_n}$$

or

$$G_x = \text{antilog} \frac{(\log X_1 + \log X_2 + \dots + \log X_n)}{n}$$

### Standard Deviation

- A measure of variability or dispersion. For a set of n observations,  $X_i$  ;  $i = 1, \dots, n$ . The standard deviation is given as:

$$S = \sqrt{\Sigma(x_i - \bar{x})^2 / (n - 1)}$$

### SELECTED REFERENCES

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"Outlines of Analytical Methods, A Guide to the Occurrence,  
Significance, Sampling and Analytical of Chemical and  
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Ontario Ministry of Environment and Ministry of Natural Resources, 1988.  
"Guide to Eating Ontario Sport Fish."



# ABBREVIATIONS AND REMARKS USED ON REPORTS

## ABBREVIATIONS USED:

BTH GRAB	BOTTOM GRAB SAMPLE
CORE	BOTTOM CORE SAMPLE
CNT LOW	BACTERIA COUNT UNACCEPTABLE
DATA AVL	DATA NOT STORED IN THIS SYSTEM BUT IS AVAILABLE
DC	DEPTH COMPOSITE SAMPLE
DD	DAY
ET	END TIME
EXP	PRECIPITATING AT EXPOSURE (FOR PRECIP. SAMPLES)
GC	GAUGE DEPTH (FOR PRECIP. SAMPLES)
I	DEPTH INTERVAL (IN METERS) WHEN ASSOCIATED WITH DC
ID	TIME INTERVAL (IN HOURS) WHEN ASSOCIATED WITH TC
IT	INITIAL DATE (SET-UP DATE FOR PRECIP. SAMPLES)
	INITIAL TIME (SET-UP TIME FOR PRECIP. SAMPLES)
LAT	LATITUDE
LONG	LONGITUDE
LMT	LOCAL MEAN TIME
LO1	LOW VOLUME SEQUENTIAL SAMPLE
LO2	LOW VOLUME NUTECH SAMPLE
MM	MONTH
N	NUMBER OF SAMPLES (USED FOR DC, TC AND CORE SAMPLES)
DRY	PRECIPITATION SAMPLE (DRY ONLY)
WET	PRECIPITATION SAMPLE (WET ONLY)
BULK	PRECIPITATION SAMPLE (BULK)
GRND	PRECIPITATION SAMPLE (ON GROUND SNOW COURSE)
REM	PRECIPITATING AT REMOVAL (FOR PC SAMPLES 0,1,2,3)
SD	START DEPTH
ST	START TIME
SED CORE	SEDIMENT CORE SAMPLE (DEPTH FROM AND TO MEASURED IN CM)
SED GRAB	SEDIMENT GRAB SAMPLE (DEPTH FROM AND TO MEASURED IN CM)
WLE	WATER LAYER - WHOLE LAKE COMPOSITE
EPI	WATER LAYER - EPIILINNIION ZONE
MET	WATER LAYER - METALINNIION ZONE
HYP	WATER LAYER - HYPOLINNIION ZONE
EUP	WATER LAYER - EUPHOTIC ZONE
GEN	WATER LAYER - GENERAL LAYER
TC	TIME COMPOSITE SAMPLE
TNTC	BACTERIA TOO NUMEROUS TO COUNT
V	VOLUME WHEN ASSOCIATED WITH LO1 AND LO2 SAMPLES
YY	YEAR

## NOTE:

ONE SAMPLE DESIGNATES DATA ASSOCIATED WITH A LOCATION AT ONE POINT IN TIME

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

REMARK	MEANING OF REMARK	COMMENT CODE
<	ACTUAL RESULT < THAN REPORTED VALUE	PE
<=>	APPROXIMATE RESULT	
<E	NO RESP.: (EXCESS DIL'N) MIN. VALUE	PE
<N	NON-DETECTED	PE
<R	DETECT LIMIT REPORT: VALUE < LIMIT	PE
<S	TRACE RESP.: < THAN VALUE REPORTED	PE
<T	LOW VALUE TENTATIVE: FOR INFO ONLY	PT
<W	0 VALUE IS MIN. MEASURABLE AMOUNT	PT
IAA	NO DATA: ANAL. REQ ABSENT-AMBIGUOUS	
IAD	NO DATA: ANOMALOUS DATA WITHDRAWN	
IAI	ADDITIONAL INFORMATION AVAIL AT LAB	
IAL	NO DATA: AL NOT DONE, PH > 5.5	
IAM	NO DATA: PH > 7	
IAR	SEE ATTACHED REPT: NO NUMERIC VALUE	
IAM	NO DATA: ANALYSIS WITHDRAWN	
IBC	NO DATA: BACKGRND COLOUR INTERFERES	
IBL	NO DATA: UNRELIABLE BLANK	
IBN	NO DATA: BACKGND TO NUMEROUS TO CNT	
IBT	NO DATA: SAMPLE BROKEN IN TRANSIT	
ICA	NO DATA: CARBONATE NOT DONE, PH>5.0	
ICC	COURT CASE: RESULTS REPT. ELSEWHERE	
ICR	COULD NOT PERFORM CONFIRMING REANAL	
ICS	NO DATA: CONTAMINATION SUSPECTED	
ICU	TYPICAL/TOTAL COLONY CNT UNSUITABLE	
IDD	SAMP. SUBM. AS DUP. FOUND TO DIFFER	
IDI	NO DATA: SAMPLE DISCARDED IN ERROR	

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

REMARK	MEANING OF REMARK	COMMENT CODE
EF	NO DATA: LABORATORY EQUIP. FAILURE	
EP	NO DATA: EXCESS. PRESERVATIVE USED	
FC	NO DATA: FOIL CAP CONTAMINATED SAMP	
FF	NO DATA: FIELD FILTERED SAMP REQURD	
GL	NO DATA: GREEN LABEL REQ ON BOTTLE	
HB	HIGH BACKGND ABSORBANCE IN EXTRACT	
HI	RERUN: NO VALUE,OFFSCALE HIGH	
IC	NO DATA: IMPROPER CONTAINER	
IF	NO DATA: INVALID FILTER-NO AIR VOL	
IL	NO DATA: SAMPLE INCORRECTLY LABELED	
IH	INTERNAL LAB MEMO; FOR LAB USE ONLY	
IP	NO DATA: INSUFFICIENT PRESERVATIVE	
IR	INSUFFICIENT SAMP FOR REPEAT ANALY	
IS	NO DATA: INSUFFICIENT SAMPLE	
IV	NO DATA: INVALID SAMPLE	
LA	SAMPLE SPOILED IN LAB ACCIDENT	
LC	NO DATA: LAB CAPACITY EXCEEDED	
LD	NO DATA: TEST QUEUED:SAMP DISCARDED	
LO	RERUN: NO VALUE,OFFSCALE LOW	
LP	NO DATA: PERISHABLE TEST QUEUE LATE	
MS	SAMP TOO COMPLEX REFERRED TO MS GRP	
NA	NO AUTHORIZATION TO PERFORM ANALY	
NE	SUBM SHEET MISPLACED - NOT ENTERED	
NF	INFORMATION NOT REC'D FROM SUBMITOR	
NI	NO DATA: SAMP NOT STORED IN ICE	

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

REMARK	MEANING OF REMARK	COMMENT CODE
INP	NO DATA: NO APPROP. PROCEDURE AVAIL	
INR	NO DATA: SAMPLE NOT RECEIVED AT LAB	
INS	NO DATA: NOT EQUIP. TO ANALY SAFELY	
INT	NO DATA: NO TIME RECORDED	
IOC	NO DATA: ORGANIC CARBON CONTENT>17%	
IOF	SLUDGE SAMP DISCARD:BOTTLE OVERFILL	
IOP	NO DATA: OBSCURED PLATE	
IOS	NO DATA: OPTIONAL SAMPLE	
IOT	SAMPLE OVERTITRATD:NO REPEAT POSSBLE	
IPE	PROCEDURE ERROR: SAMP NOW DISCARDED	
IPH	SAMP PH OUTSIDE VALID RANGE	
IPM	NO DATA: PIECE MISSING	
IPR	NO DATA: PRESERVATIVE REQUIRED	
IPU	NO DATA:VSAMPLE PRESUMED UNSTERILE	
IQU	NO DATA: QUALITY CONTROL UNACCEPT.	
IRC	RESULT CHANGED: REPORT REVISED	
IRD	SEE ATTCH. REPT:NO NUM VALUE:DIOXIN	
IRE	NO DATA: SAMP CONTAINER RECV. EMPTY	
IRI	SEE ATTCH. REPT:NO NUM VALUE:ITCS	
IRL	RESULT FORTHCOMING FROM RAD. LAB	
IRM	SEE ATTCH. REPT:NO NUM VALUE:MICRO	
IRN	SEE ATTCH. REPT FOR NUMERIC RESULT	
IRO	SEE ATTCH. REPT:NO NUM VALUE:OTCS	
IRP	SEE ATTCH. REPT:NO NUM VALUE:PEST	
IRR	NO DATA: RERUN HAS BEEN INITIATED	

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

REMARK	MEANING OF REMARK	COMMENT CODE
RT	SAMPLE NOT REFRIGERATED IN TRANSIT	
RW	SEE ATTCH. REPT:NO NUM VALUE:WQS	
SD	NO DATA: SAMPLE DECOMPOSED	
SE	SAMPLE EXAMINED: SEE OTHER RESULTS	
SF	NO DATA: SAMPLE RECEIVED FROZEN	
SL	NO DATA: SAMP ARRIVED LATE FOR ANAL	
SM	NO DATA: SAMPLE MISSING:LOST IN LAB	
SS	SEPARATE SAMP, PROPER. PRESERVE REQ	
TE	TURB LIMIT OF APP COLOR TEST EXCEED	
TF	NO DATA: TORN FILTER	
TH	TURB EXCEEDED RANGE OF INSTRUMENT	
TN	NO DATA: TOO NUMEROUS TO COUNT	
TU	NO DATA: ANALY TEMPORARILY UNAVAIL.	
TW	NO DATA: TARE WT. > LOADED WT.	
TX	NO DATA: TIME LIMIT EXPIRED	
U	UNSUITABLE FOR ANALYSIS	
UB	BROKEN SAMPLE CONTAINER	
UD	INSUFFICIENT SAMPLE	
UE	NO DATA: UNCORRECTABLE ERROR	
UI	NO DATA: UNDETERMINED INTERFERENCE	
UR	NO DATA: UNPRESERVED SAMP REQUIRED	
VE	INSUFFICIENT SAMP:VISUAL EST:RSP<15	
VU	NO DATA: VALUES USED IN CACL UNVAIL	
WP	NO DATA: WRONG PRESERVATIVE USED	
12	NO DATA: SAMPLE AGE EXCEEDS 12HR	

ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

REMARK	MEANING OF REMARK	COMMENT CODE
I72	NO DATA: SAMPLE AGE EXCEEDS 72HR	
!BT	NO DATA: SAMPLE BROKEN IN TRANSIT	
>	ACTUAL RESULT > THAN REPORTED VALUE	PE
>SF	ACTUAL MASS > SIZED FIBRE MASS	PE
A>	APROX RSLT: EXCEED NORMAL RNGE LIMIT	
AAI	ADDITIONAL INFO AVAILABLE FROM LAB	
AID	APPROX VALUE: INSUFFICIENT DILUTION	
AIP	ANALYSIS IN PROGRESS	
ALO	TOO ORGANIC; 4:1 SOL'N:SOIL RATIO	
APD	ANALYSIS PERFORMED AT DORSET LAB	
BPS	RESULTS BIASED LOW DUE TO LONG STOR	
C	BACKGROUND COUNT TO NUMEROUS	
CIC	POSSIBLE CONTAM DUE TO IMPROPER CAP	
CHS	IDENTITY CONFIRMED BY GC/MASS SPEC	
CRO	CALCULATED RESULT ONLY	
DCC	SAMPLE KNOWN TO CONTAIN CARCINOGENS	
DCN	SAMPLE KNOWN TO CONTAIN CYANIDE	
DCP	DANGEROUS CONSTITUENTS PRESENT	
DUP	DUPLICATE	
E	ESTIMATED OR COMPUTED VALUE STORED	
EBR	NO RESULT: BOTTLE RECEIVED EMPTY	
EDC	EXCEEDS 1978 DRINK WATER QUAL CRIT	
EY	ESTIMATED VALUE - TARE WT UNVAIL.	
FAN	FRACTION ANALY: NON-AQUEOUS PHASE	
FAP	FRACTION ANALY: PARTICULATE ONLY	

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

REMARK	MEANING OF REMARK	COMMENT CODE
FBA	LAB STAFF:FILT.WHOLE SAMP BEFORE AN	
HRF	SUSPECTED HIGH RESULT:IRON PRECIP	
LPI	LABELS PROBABLY INTERCHANGED	
M	MANUALLY ANALYSED	
NAF	NOT ALL REQUIRED TESTS FOUND	
NED	NOT ENOUGH DATA	
NNN	NOTE: CORRECTED VALUE	
NSS	NO SUITABLE SAMPLE	
NTR	NO TIME RECORDED: ANAYL. PERFORMED	
PFS	TEST PERFORMED ON PREV FROZEN SAMP	
PHA	PH ADJUSTED BEFORE ANALYSIS	
PLD	PASSIVE LOADING	
PNF	TEST PERFORMED ON NON-FROZEN SAMPLE	
PNS	TEST PERFORMED ON UNPRESERVE SAMPLE	
PPS	TEST PERFORMED ON PRESEVERED SAMPLE	
PS2	PCB RESEM.MIX AROCLR 1242 1245 1260	
P20	PCB RESEMBLED MIX AROCLOR 1242 1260	
P21	PCB RESEMBLED AROCLOR 1221	
P24	RESEMBLED MIX: AROCLOR 1242 AN 1254	
P28	RESEMBLED MIX: AROCLOR 1242 AN 1248	
P40	RESEMBLED MIX: AROCLOR 1254 AN 1260	
P42	PCB RESEMBLED AROCLOR 1242	
P48	PCB RESEMBLED AROCLOR 1248	
P54	PCB RESEMBLED AROCLOR 1254	
P60	PCB RESEMBLED AROCLOR 1260	

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

REMARK	MEANING OF REMARK	COMMENT CODE
P84	RESEMBLED MIX: AROCLOR 1248 AN 1254	
R24	REPEAT: 24HR BETWEEN SAMP AND ANAL	
R48	REPEAT: 48HR BETWEEN SAMP AND ANAL	
R72	REPEAT: 72HR BETWEEN SAMP AND ANAL	
SD	SAMP SUBM AS DUPLIC FOUND TO DIFFER	
SIL	SAMP INCORRECTLY LABELLED	
SPH	SATURATED PASTE PH REPT:HIGH ORGAN.	
SPL	SEVERAL PEAKS,LARGE,NOT PRIORITY	
SPS	SEVERAL PEAKS,SMALL,NOT PRIORITY	
STA	SAMP TOO OLD FOR RE-ANALYSIS	
STC	SAMP TOO COMPLEX FOR THIS METHOD	
TAF	TRACE AMOUNT FOUND	
U	UNRELIABLE RESULT	
URD	RESULT MAY BE LOW: UNDISOLVE PART.	
WSB	WARNING-HEAVY SILT IN SAMP BIAS RES	
WSD	WRONG SAMP DESCRIPTION ON BOTTLE	
WST	WET SAMP MASS USED:RESLT REPT MG/KG	
X1	DILUTD BY 10 DETECT LIMT 10X NORM	
X2	DILUTD BY 100 DETECT LIMT 100X NORM	
X3	DILUTD BY 1000 DECT.LIMT 1000X NORM	
24P	P-A BOTTLE POSITIVE AFTER 24 HOURS	
48P	P-A BOTTLE POSITIVE AFTER 48 HOURS	
72P	P-A BOTTLE POSITIVE AFTER 72 HOURS	
96P	P-A BOTTLE POSITIVE AFTER 96 HOURS	
99P	P-A BOTTLE POSITIVE AFTER 120 HOURS	



ABBREVIATIONS AND REMARKS USED ON REPORTS

COMPUTED VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

<A      VALUE WITH A REMARK WHICH HAS A  
         COMMENT CODE OF PT (AS ABOVE) USED IN  
         COMPUTATIONS

NOTE: VALUES WITH COMMENT CODE OF PE  
      ARE NOT USED IN COMPUTATIONS

REMARK CODES APPEAR TO THE RIGHT OF THE VALUE I.E. 435.56<T

## 1983 WATER QUALITY DATA REGION 5

1

B.O.W./ SITE: MONTREAL RIVER  
 SAMPLE POINT: HIGHWAY NO 17 66 MILES SOUTH OF WAWA  
 STATION TYPE: RIVER FLOW GAUGE FED 02BE002

STATION ID: 01-0009-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE SUPERIOR  
 TERM STREAM: MONTREAL RIVER

STORET CODE: 02  
 001  
 0410

LAT: 47 14 19.78 LONG: 084 38 44.02 U T M: 16 0678200.0 5234175.0 4 REGION: 05 DISTANCE: 0.805

*INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWFLOW
				ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	STREAM
SAMPLE	DATE HOUR	SAMPLE	PROJECT	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	FLOW
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	M3
			CODE	AS CACO3	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	/S
830228	1145	14016	0101	21.2	0.120	0.40	59.9	0.001	11.00	0.185	57.700
830316	1230	14034	0101	21.1	0.120	0.66	61.5	0.002	10.00	0.155	53.000
MAXIMUM		0.30		21.2	0.120	0.66	61.5	0.002	11.00	0.185	57.700
ARITH MEAN		0.30		21.1	0.120	0.53	60.7	0.001	10.50	0.170	55.350
GEOM MEAN				21.1	0.120	0.51	60.7	0.001	10.49	0.169	55.300
MINIMUM		0.30		21.1	0.120	0.40	59.9	0.001	10.00	0.155	53.000
STD DEV (GEOM *)				0.1	0.000	0.18	1.1	0.001	0.71	0.021	3.323
# SAMP IN STATISTICS		2		2	2	2	2	2	2	2	2
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP
				NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR	
SAMPLE	DATE HOUR	SAMPLE	STREAM	UNF.TOT.	FIL.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	RESIDUE
YYMMDD	LMT	NUMBER	COND.	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	PARTIC.
			DEG.C	AS NI	AS N	AS PB		PHENOL	AS P	AS P	MG/L
830228	1145	14016	8	0.5	0.001<	0.014	7.16	0.2<T	0.0005<W	0.007	2.76
830316	1230	14034	8	2.0	0.001<	0.022	7.01	0.8	0.0010<W	0.001<T	3.80
MAXIMUM			2.0		0.022		7.16	0.8	0.0010	0.007	3.80
ARITH MEAN			1.2		0.018		7.08	0.5<A	0.0007<A	0.004<A	3.28
GEOM MEAN			1.0		0.018		7.08	0.4<A	0.0007<A	0.003<A	3.24
MINIMUM			0.5		0.014		7.01	0.2	0.0005	0.001	2.76
STD DEV (GEOM *)			1.1		0.006		0.11	0.4<A	0.0004<A	0.004<A	0.74
# SAMP IN STATISTICS			2		2		2	2	2	2	2
% SAMP (EXCLUDED)											

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

2

B.O.W./ SITE: MONTREAL RIVER  
SAMPLE POINT: HIGHWAY NO 17 66 MILES SOUTH OF WAWA  
STATION TYPE: RIVER FLOW GAUGE FED 02BE002

STATION ID: 01-0009-001-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE SUPERIOR  
TERM STREAM: MONTREAL RIVER

STORET CODE: 02  
001  
0410

LAT: 47 14 19.78 LONG: 084 38 44.02

U T M: 16 0678200.0 5234175.0 4

REGION: 05

DISTANCE: 0.805

*=INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
SAMPLE			UNF.TOT.
DATE	HR	SAMPLE	TURB'ITY
YYMMDD	LMT	NUMBER	FTU
			MG/L
			AS ZN
830228	1145	14016	1.90
830316	1230	14034	0.88
			0.005
			0.008
		MAXIMUM	1.90
			0.008
		ARITH MEAN	1.39
			0.006
		GEOM MEAN	1.29
			0.006
		MINIMUM	0.88
			0.005
		STD DEV (GEOM *)	0.72
			0.002
		# SAMP IN STATISTICS	2
			2
		% SAMP (EXCLUDED)	

## 3

STATION ID: 01-0012-001-02

STORET CODE: 02  
001  
0470

**DISTANCE: 0.966**

[illegible]

## 1983 WATER QUALITY DATA REGION 5

4

B.O.W./ SITE: MICHIPICOTEN RIVER  
 SAMPLE POINT: HIGHWAY 17 5 MILES SOUTH OF WAWA  
 STATION TYPE: RIVER FLOW GAUGE FED 02BD002

STATION ID: 01-0029-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE SUPERIOR  
 TERM STREAM: MICHIPICOTEN RIVER

STORET CODE: 02  
 001  
 0900

LAT: 47 55 21.00 LONG: 084 48 17.20 U T M: 16 0664000.0 5309800.0 4 REGION: 05 DISTANCE: 6.115

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALK	ASUT	CDUT	COND25	CRUT	CUUT	DO	FWFLOW
SAMPLE		SAMPLE	PROJECT	TOTAL	ARSENIC	CADMIUM	CONDUCT.	CHROMIUM	COPPER	DISSOLVED	STREAM
DATE	HOUR	DEPTH	SUB-PROJ	MG/L	UNF.TOT.	UNF.TOT.	25C	UNF.TOT.	UNF.TOT.	OXYGEN	FLOW
YYMMDD	LMT	M	CODE	AS CAC03	MG/L	MG/L	UMHQ/CM	MG/L	MG/L	MG/L	M3
					AS AS	AS CD	AT 25 C	AS CR	AS CU	AS O	/S
830124	1100	14460	0101	28.3	0.001<	0.0002<		0.007	0.001	10.00	85.800
830215	0900	14461	0101	28.9	0.001<	0.0002<		0.001<	0.002	11.00	82.000
830305	0830	14464	0101	38.5	0.001<	0.0002<		0.002	0.001<	11.00	88.300
830315	0845	14462	0101	30.5	0.001<	0.0002<		0.001<	0.001	11.00	88.400
830419	0945	14463	0101		0.001<	0.0002		0.001<	0.002	10.00	75.200
830725	0900	14465	0101	28.4	0.001<	0.0002<		0.001<	0.006	11.00	68.100
830823	0845	14466	0101	29.2	0.001<	0.0002<	75.5	0.001<	0.002	10.00	78.700
830912	0915	14467	0101					0.002	0.006	9.00	74.100
831011	0830	14468	0101	27.4	0.001<	0.0002<		0.001<	0.001<	9.00	75.000
831101	0830	14469	0101	26.0	0.001<	0.0002<	67.8	0.001<		9.00	65.400
MAXIMUM		0.30		38.5		0.0002	75.5	0.007	0.006	11.00	88.400
ARITH MEAN		0.30		29.6		0.0002	71.6	0.004	0.003	10.10	78.100
GEOM MEAN				29.5			71.5			10.07	77.723
MINIMUM		0.30		26.0		0.0002	67.8	0.002	0.001	9.00	65.400
STD DEV (GEOM *)				3.8			5.4			0.88	8.030
# SAMP IN STATISTICS		10		8		1	2	3	7	10	10
% SAMP (EXCLUDED)						88		70	22		

*INTERIM TEST-NAME:		FWTEMP	HGUT	NNHTR	NNOTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR
SAMPLE		WATER	MERCURY	NH3-N	NH3-N	NH3-N	NH3-N	K'DAHL N	LEAD		P04
DATE	HOUR	TEMP	UNF.TOT.	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC
YYMMDD	LMT	DEG.C	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
			AS HG	AS N	AS N	AS N	AS N	AS N	AS PB	PH	AS P
830124	1100	14460	1.0	0.02<					0.010	7.69	0.0010<T
830215	0900	14461	2.0	0.01	0.006	0.115	0.0020	0.113	0.003<	7.74	
830305	0830	14464	4.0	0.01					0.003<	7.09	0.0005<T
830315	0845	14462	1.0	0.02	0.002	0.150	0.0080	0.142	0.003<	7.84	0.0020<T
830419	0945	14463	1.0	0.02	0.034	0.220	0.0035	0.216	0.003<	7.32	0.0005<W
830725	0900	14465	20.0	0.02<	0.022	0.090	0.0030	0.087	0.003<	7.37	0.0010<T
830823	0845	14466	18.0	0.03	0.010	0.080	0.0020	0.078	0.003<	7.62	0.0005<T
830912	0915	14467	17.0	0.01		0.085	0.0020	0.083	0.009		0.0010<T
831011	0830	14468	12.0	0.02	0.012	0.070	0.0020	0.068	0.004	7.64	0.0010<T
831101	0830	14469	8.0	0.05		0.090	0.0030	0.087	0.003<	7.46	0.0005<T
MAXIMUM		20.0	0.05	0.034	0.220	0.0080	0.216	0.320	0.010	7.84	0.0020
ARITH MEAN		8.4	0.02	0.014	0.112	0.0032	0.109	0.242	0.008	7.53	0.0009<A
GEOM MEAN		4.6		0.010	0.105	0.0028	0.102	0.240		7.53	0.0008<A
MINIMUM		1.0	0.01	0.002	0.070	0.0020	0.068	0.200	0.004	7.09	0.0005
STD DEV (GEOM *)		7.7		0.012	0.050	0.0020	0.049	0.038		0.24	0.0005<A
# SAMP IN STATISTICS		10	8	6	8	8	8	7	3	9	9
% SAMP (EXCLUDED)			20						70		

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

5

B.O.W./ SITE: MICHIPICOTEN RIVER  
 SAMPLE POINT: HIGHWAY 17 5 MILES SOUTH OF WAWA  
 STATION TYPE: RIVER FLOW GAUGE FED 02BD002

STATION ID: 01-0029-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE SUPERIOR  
 TERM STREAM: MICHIPICOTEN RIVER

STORET CODE: 02  
 001  
 0900

LAT: 47 55 21.00 LONG: 084 48 17.20

U T M: 16 0664000.0 5309800.0 4

REGION: 05

DISTANCE: 6.115

*INTERIM TEST-NAME:		PPUT	RSF	RSP	ZNUT
		PHOSPHOR			ZINC
SAMPLE		UNF.TOT.	RESIDUE	RESIDUE	UNF.TOT.
DATE	HR	MG/L	FILTERED	PARTIC.	MG/L
YYMMDD	LMT	AS P	MG/L	MG/L	AS ZN
830124	1100	14460	0.007	54.7	0.250<T
830215	0900	14461		50.0	51.000
830305	0830	14464	0.014	69.4	3.390
830315	0845	14462	0.008	53.6	1.370
830419	0945	14463	0.014	46.0	48.000
830725	0900	14465	0.005	49.7	0.050<T
830823	0845	14466	0.001<W	49.0	0.890<T
830912	0915	14467	0.010		2.110
831011	0830	14468	0.011	48.7	0.330<T
831101	0830	14469	0.004	44.0	0.720<T
MAXIMUM		0.014	69.4	51.000	0.015
ARITH MEAN		0.008<A	51.7	10.811<A	0.005
GEOM MEAN		0.007<A	51.3	1.514<A	
MINIMUM		0.001	44.0	0.050	0.002
STD DEV (GEOM *)		0.004<A	7.4	20.427<A	
# SAMP IN STATISTICS		9	9	10	7
% SAMP (EXCLUDED)					22

## 1983 WATER QUALITY DATA REGION 5

6

B.O.W./ SITE: MAGPIE RIVER  
 SAMPLE POINT: AT BRIDGE DOWNSTREAM FROM MISSION FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02BD003

STATION ID: 01-0029-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE SUPERIOR  
 TERM STREAM: MAGPIE RIVER

STORET CODE: 02  
 001  
 0920

LAT: 47 56 21.00 LONG: 084 49 46.25 U T M: 16 0662100.0 5311600.0 4 REGION: 05 DISTANCE: 2.092

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWFLOW	FWTEMP	
SAMPLE DATE	YMHDD LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	DISOLVED OXYGEN MG/L AS O	IRON UNF.TOT. MG/L AS FE	STREAM FLOW M3 /S	WATER TEMP DEG.C
830124	1315	14400	0.30	0101	45.0	1.20	132.0	0.007	11.00	0.195	16.600	2.0
830215	0935	14401	0.30	0101	48.5	1.26	126.0	0.004	10.00	0.395	14.600	1.0
830305	0845	14406	0.30	0101	39.0	1.28	82.5	0.003	11.00	0.315	13.900	3.0
830315	0900	14402	0.30	0101	44.6	4.90	143.0	0.015	11.00	0.470	21.500	1.0
830419	0915	14403	0.30	0101		1.55	109.0	0.002	11.00	0.325	56.500	3.0
830421	0845	14404	0.30	0101	36.5	1.58	112.0	0.003	10.00	0.155	51.500	
830428	1330	14405	0.30	0101	28.5	1.57	90.1	0.001<	11.00	0.445	99.000	3.0
830509	0900	14407	0.30	0101	27.6	0.97	81.9	0.001<	11.00	0.170	102.000	4.0
830725	0830	14408	0.30	0101	52.0	1.34	144.0	0.001	11.00	0.040<T	12.800	17.0
830823	0845	14409	0.30	0101	63.1	2.01	178.0	0.001	10.00	0.045	7.190	18.0
830912	0945	14410	0.30	0101	50.4	1.83	144.0	0.001<	11.00	0.105	16.300	15.0
831011	0915	14411	0.30	0101	54.2	1.70	151.0	0.001<	11.00	0.060	13.000	14.0
831101	0930	14412	0.30	0101	40.1	1.41	109.5	0.001<	10.00	0.090	29.500	5.0
831121	0845	14413	0.30	0101	37.9	2.03	122.0	0.001	9.00	0.300	33.000	4.0
831123	0830	14414	0.30	0101	39.9	1.73	111.1	0.001	10.00	0.145	40.300	2.0
831128	0845	14415	0.30	0101	39.6	1.58	111.4	0.001	12.00	0.115	45.100	1.0
831201	0845	14416	0.30	0101	38.8	1.55	108.2	0.001	11.00	0.035<T	42.400	
MAXIMUM		0.30			63.1	4.90	178.0	0.015	12.00	0.470	102.000	18.0
ARITH MEAN		0.30			42.9	1.73	120.9	0.003	10.65	0.200<A	36.188	6.2
GEOM MEAN					41.9	1.62	118.4		10.62	0.148<A	27.592	3.8
MINIMUM		0.30			27.6	0.97	81.9	0.001	9.00	0.035	7.190	1.0
STD DEV (GEOM *)					9.2	0.86	25.6		0.70	0.146<A	28.501	6.3
# SAMP IN STATISTICS		17			16	17	17	12	17	17	17	15
% SAMP (EXCLUDED)								29				

( CONT D )

## 1983 WATER QUALITY DATA REGION 5

7

B.O.W./ SITE: MAGPIE RIVER  
 SAMPLE POINT: AT BRIDGE DOWNSTREAM FROM MISSION FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02BD003

STATION ID: 01-0029-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE SUPERIOR  
 TERM STREAM: MAGPIE RIVER

STORET CODE: 02  
 001  
 0920

LAT: 47 56 21.00 LONG: 084 49 46.25 U T M: 16 0662100.0 5311600.0 4 REGION: 05 DISTANCE: 2.092

*INTERIM TEST-NAME:		NIUT	NNHTFR NH3-N	NNOTFR	NNTKUR K'DAHL N	PBUT	PH	PP04FR	PPUT	RSP	SS04UR	
		NICKEL	TOTAL	NO2+NO3N	TOTAL	LEAD		PO4	PHOSPHOR		SULPHATE	
SAMPLE	DATE HOUR	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	RESIDUE	UNF.REAC	
YYMMDD	LMT	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	PARTIC.	MG/L	
		AS NI	AS N	AS N	AS N	AS PB	PH	AS P	AS P	MG/L	AS S04	
830124	1315	14400	0.001<	0.028	0.155	0.280	0.003<	7.91	0.0035	0.010	2.190	16.68
830215	0935	14401	0.002<	0.008	0.185	0.310	0.018	7.80			3.470	13.02
830305	0845	14406	0.001	0.004<T	0.200	0.320	0.005	7.46	0.0020<T	0.019	8.880	9.37
830315	0900	14402	0.002	0.004	0.300	0.230	0.093	7.92	0.0050	0.013	5.360	17.14
830419	0915	14403	0.002<	0.006	0.285	0.290	0.003<	7.50	0.0035	0.023	3.010	13.98
830421	0845	14404	0.001	0.008	0.295	0.280	0.003<	7.47	0.0050	0.018	3.590	16.80
830428	1330	14405	0.002<	0.008	0.240	0.370	0.003<	7.40	0.0015<T	0.030	15.600	11.63
830509	0900	14407	0.002<			0.290	0.003<	7.38		0.008	3.140	9.27
830725	0830	14408	0.002<	0.020	0.045	0.260	0.003<	7.88	0.0010<T	0.008	0.780<T	18.76
830823	0845	14409	0.002<	0.058	0.050	0.300	0.003<	8.04	0.0010<T	0.001<T	1.210	23.95
830912	0945	14410	0.002<	0.032	0.100	0.300	0.003<	8.02	0.0010<T	0.010	2.280	20.37
831011	0915	14411	0.003	0.008	0.075	0.260	0.003<	7.89	0.0010<T	0.011	0.480<T	20.28
831101	0930	14412	0.002<	0.018	0.075	0.280	0.003<	7.66	0.0010<T	0.010	2.000	13.81
831121	0845	14413	0.002<	0.052	0.175	0.310	0.003<	7.62	0.0070	0.025	7.070	17.37
831123	0830	14414	0.002<	0.048	0.155	0.360	0.003<	7.79	0.0080	0.025	3.390	13.94
831128	0845	14415	0.002<	0.040	0.125	0.320	0.003<	7.90	0.0060	0.023	2.700	14.30
831201	0845	14416	0.001<	0.046	0.130	0.890	0.003<	7.53	0.0070	0.054	4.000	14.00
MAXIMUM		0.003	0.058	0.300	0.890	0.093	8.04	0.0080	0.054	15.600	23.95	
ARITH MEAN		0.002	0.024<A	0.162	0.332	0.039	7.72	0.0036<A	0.018<A	4.068<A	15.57	
GEOM MEAN			0.017<A	0.139	0.315		7.71	0.0026<A	0.014<A	2.959<A	15.10	
MINIMUM		0.001	0.004	0.045	0.230	0.005	7.38	0.0010	0.001	0.480	9.27	
STD DEV (GEOM *)			0.019<A	0.085	0.148		0.23	0.0026<A	0.013<A	3.662<A	3.93	
# SAMP IN STATISTICS		4	16	16	17	3	17	15	16	17	17	
% SAMP (EXCLUDED)		76				82						

( C O N T D )



## 1983 WATER QUALITY DATA REGION 5

8

B.O.W./ SITE: MAGPIE RIVER  
 SAMPLE POINT: AT BRIDGE DOWNSTREAM FROM MISSION FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02BD003

STATION ID: 01-0029-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE SUPERIOR  
 TERM STREAM: MAGPIE RIVER

STORET CODE: 02  
 001  
 0920

LAT: 47 56 21.00 LONG: 084 49 46.25

U T M: 16 0662100.0 5311600.0 4

REGION: 05

DISTANCE: 2.092

*INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
			UNF.TOT.
SAMPLE			MG/L
DATE HOUR	SAMPLE	TURB*ITY	
YYMMDD LMT	NUMBER	FTU	AS ZN
830124 1315	14400	1.33	0.002
830215 0935	14401	0.97	0.011
830305 0845	14406	1.90	0.004
830315 0900	14402	2.10	0.210
830419 0915	14403	2.30	0.001
830421 0845	14404	1.40	0.004
830428 1330	14405	1.50	0.006
830509 0900	14407	1.50	0.004
830725 0830	14408	0.60	0.020
830823 0845	14409	0.59	0.004
830912 0945	14410	4.00	0.003
831011 0915	14411	3.40	0.002
831101 0930	14412	1.81	0.004
831121 0845	14413	3.20	0.006
831123 0830	14414	1.57	0.001<
831128 0845	14415	0.93	0.005
831201 0845	14416	0.66	0.006
MAXIMUM		4.00	0.210
ARITH MEAN		1.75	0.018
GEOM MEAN		1.50	
MINIMUM		0.59	0.001
STD DEV (GEOM *)		1.00	
# SAMP IN STATISTICS		17	16
% SAMP (EXCLUDED)			5

## 1983 WATER QUALITY DATA REGION 5

9

B.O.W./ SITE: MAGPIE RIVER  
 SAMPLE POINT: UPSTREAM OF WAWA LAGOONS  
 STATION TYPE: RIVER

STATION ID: 01-0029-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE SUPERIOR  
 TERM STREAM: MAGPIE RIVER

STORET CODE: 02  
 001  
 0920

LAT: 47 59 18.15 LONG: 078 47 28.54 U T M: 17 0664800.0 5317150.0 4 REGION: 05 DISTANCE: 13.358

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWTEMP	NIUT
SAMPLE		SAMPLE	PROJECT	ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	WATER	NICKEL
DATE	HOUR	DEPTH	SUB-PROJ	TOTAL	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	TEMP	UNF.TOT.
YYMMDD	LMT	M	CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	DEG.C	MG/L
				AS CAC03	AS CL-	AT 25 C	AS CU	AS O	AS FE		AS NI
830124	1330	14440	0101	43.8	1.20	129.0	0.004	11.00	0.145	2.0	0.002<
830215	0920	14441	0101	48.8	1.17	129.0	0.003	10.00	0.175	1.0	0.002<
830305	0900	14446	0101	35.5	1.06	78.6	0.002	11.00	0.240	3.0	0.001<
830315	0915	14442	0101	44.2	2.31	134.0	0.004	11.00	0.240	1.0	2.000<
830419	0930	14443	0101		1.59	109.0	0.002	11.00	0.485	3.0	0.002<
830421	0830	14444	0101	34.5	1.49	110.0	0.006	11.00	2.025	1.0	0.002
830428	1345	14445	0101	29.2	1.56	89.5	0.003	9.00	0.710	3.0	0.002<
830509	0930	14447	0101	28.4	0.95	80.9	0.002	10.00	0.170	4.0	0.002<
830725	0800	14448	0101	51.1	1.11	139.0	0.001	11.00	0.045	19.0	0.002<
830823	0915	14449	0101	60.8	1.43	166.0	0.001	10.00	0.025<T	18.0	0.002<
830912	0900	14450	0101	51.8	1.32	141.0	0.001<	11.00	0.080	15.0	0.010
831011	0930	14451	0101	53.6	1.32	147.0	0.001<	11.00	0.050	14.0	0.002
831101	0930	14452	0101	39.0	1.24	109.2	0.001<	10.00	0.185	5.0	0.002<
831121	0900	14453	0101	37.6	1.44	111.6	0.001	9.00	0.305	4.0	0.002<
831123	0845	14454	0101	39.9	1.51	107.9	0.001<	10.00	0.105	2.0	0.002<
831128	0930	14455	0101	38.4	1.33	108.8	0.001<	12.00	0.085	1.0	0.002<
831201	0900	14456	0101	47.4	1.27	108.6	0.001<	11.00	0.090		0.002<
MAXIMUM		0.30		60.8	2.31	166.0	0.006	12.00	2.025	19.0	0.010
ARITH MEAN		0.30		42.7	1.37	117.6	0.003	10.53	0.304<A	6.0	0.005
GEOM MEAN				41.8	1.34	115.3		10.50	0.162<A	3.5	
MINIMUM		0.30		28.4	0.95	78.6	0.001	9.00	0.025	1.0	0.002
STD DEV (GEOM *)				9.1	0.30	23.6		0.80	0.477<A	6.5	
# SAMP IN STATISTICS		17		16	17	17	11	17	17	16	3
% SAMP (EXCLUDED)							35				82

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

10

B.O.W./ SITE: MAGPIE RIVER  
 SAMPLE POINT: UPSTREAM OF WAWA LAGOONS  
 STATION TYPE: RIVER

STATION ID: 01-0029-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE SUPERIOR  
 TERM STREAM: MAGPIE RIVER

STORET CODE: 02  
 001  
 0920

		LAT: 47 59 18.15		LONG: 078 47 28.54		U T M: 17 0664800.0 5317150.0 4		REGION: 05		DISTANCE: 13.358		
*=INTERIM		TEST-NAME:	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	SS04UR SULPHATE UNF. REAC	TURB
SAMPLE DATE	HR YYMMDD	SAMPLE LMT NUMBER	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH	MG/L AS P	MG/L AS P	MG/L	MG/L AS S04	TURB'ITY FTU
830124	1330	14440	0.036	0.140	0.280	0.003<	7.78	0.0435	0.056	1.900	16.64	1.23
830215	0920	14441	0.072	0.190	0.380	0.010	7.78			1.330	13.18	0.96
830305	0900	14446	0.004<T	0.200	0.320	0.003<	7.32	0.0015<T	0.017	6.330	9.26	0.75
830315	0915	14442	0.006	0.240	0.220	0.054	7.97	0.0020<T	0.008	4.690	16.86	0.77
830419	0930	14443	0.004<T	0.270	0.280	0.006	7.35	0.0015<T	0.015	12.100	16.29	1.40
830421	0830	14444	0.004<T	0.275	0.330	0.012	7.40	0.0015<T	0.015	11.800	17.67	1.80
830428	1345	14445	0.004<T	0.225	0.450	0.003	7.56	0.0010<T	0.039	11.300	11.54	1.20
830509	0930	14447			0.290	0.003<	7.38		0.007	3.320	9.00	1.10
830725	0800	14448	0.014	0.045	0.270	0.003<	7.78	0.0010<T	0.007	0.560<T	17.69	0.50
830823	0915	14449	0.012	0.055	0.290	0.003<	7.95	0.0005<T	0.001<W	0.380<T	21.79	0.53
830912	0900	14450	0.012	0.120	0.240	0.003<	7.73	0.0660	0.072	1.400	19.58	0.98
831011	0930	14451	0.010	0.075	0.250	0.003	7.93	0.0010<T	0.005	0.540<T	19.39	1.56
831101	0930	14452	0.016	0.075	0.280	0.003<	7.54	0.0010<T	0.018	0.860<T	13.70	1.16
831121	0900	14453	0.024	0.165	0.280	0.003<	7.52	0.0010<T	0.011	5.830	15.92	1.30
831123	0845	14454	0.014	0.140	0.290	0.003<	7.68	0.0010<T	0.012	2.560	13.57	0.82
831128	0930	14455	0.014	0.115	0.290	0.003<	7.76	0.0010<T	0.014	1.140	15.21	1.41
831201	0900	14456	0.014	0.120	0.300	0.003<	7.54	0.0005<T	0.010	2.150	13.70	1.10
MAXIMUM			0.072	0.275	0.450	0.054	7.97	0.0660	0.072	12.100	21.79	1.80
ARITH MEAN			0.016<A	0.153	0.296	0.015	7.65	0.0083<A	0.019<A	4.011<A	15.35	1.09
GEOM MEAN			0.011<A	0.134	0.292		7.64	0.0018<A	0.013<A	2.350<A	14.94	1.03
MINIMUM			0.004	0.045	0.220	0.003	7.32	0.0005	0.001	0.380	9.00	0.50
STD DEV (GEOM *)			0.017<A	0.074	0.053		0.21	0.0193<A	0.020<A	4.094<A	3.51	0.35
# SAMP IN STATISTICS			16	16	17	6	17	15	16	17	17	17
% SAMP (EXCLUDED)						64						

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

11

B.O.W./ SITE: MAGPIE RIVER  
SAMPLE POINT: UPSTREAM OF WAWA LAGOONS  
STATION TYPE: RIVER

STATION ID: 01-0029-006-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE SUPERIOR  
TERM STREAM: MAGPIE RIVER

STORET CODE: 02  
001  
0920

LAT: 47 59 18.15 LONG: 078 47 28.54 U T M: 17 0664800.0 5317150.0 4 REGION: 05 DISTANCE: 13.358

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830124	1330	14440	0.001
830215	0920	14441	0.007
830305	0900	14446	0.005
830315	0915	14442	0.057
830419	0930	14443	0.009
830421	0830	14444	0.009
830428	1345	14445	0.010
830509	0930	14447	0.004
830725	0800	14448	0.012
830823	0915	14449	0.001
830912	0900	14450	0.011
831011	0930	14451	0.002
831101	0930	14452	0.005
831121	0900	14453	0.007
831123	0845	14454	0.001<
831128	0930	14455	0.005
831201	0900	14456	0.006

MAXIMUM 0.057  
ARITH MEAN 0.009

GEOM MEAN  
MINIMUM 0.001

STD DEV (GEOM \*)

# SAMP IN STATISTICS 16

% SAMP (EXCLUDED) 5

## 1983 WATER QUALITY DATA REGION 5

12

B.O.W./ SITE: BAR RIVER  
 SAMPLE POINT: AT FIRST BRIDGE ABOVE LAKE GEORGE  
 STATION TYPE: RIVER

STATION ID: 02-0006-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BAR RIVER

STORET CODE: 02  
 002  
 8500

LAT: 46 25 31.76 LONG: 084 05 19.16

U T M: 16 0723700.0 5145225.0 4

REGION: 05

DISTANCE: 2.897

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
				ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
SAMPLE DATE	HR	SAMPLE	PROJECT	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	STREAM
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	COND.
			CODE	AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	
830428	1530	14051	0101	27.5	2.100	3.30	80.9	0.006	8.00	2.450	8
830529	1940	14072	0101	43.2	9.600	4.55	121.2	0.016	9.00	18.000	3
830617	2000	14085		26.8	1.100	1.96	75.6	0.004	6.00	2.800	8
830724	1700	14106		54.7	0.760	2.74	119.0	0.002	6.00	2.450	8
830823	1910	14116	0101	65.4	0.520	5.36	144.0	0.005	7.00	0.675	8
830921	1620	14137		79.6	0.750	24.35	250.0	0.002	9.00	3.550	8
831028	1500	14154	0101	39.0	3.000	5.02	123.7	0.005	10.00	3.050	8
831126	1330	14174	0101	24.9	0.890	3.07	92.0	0.003	12.00	1.975	8

MAXIMUM	0.30			79.6	9.600	24.35	250.0	0.016	12.00	18.000	
ARITH MEAN	0.30			45.1	2.340	6.29	125.8	0.005	8.37	4.369	
GEOM MEAN				41.5	1.431	4.48	117.4	0.004	8.16	2.851	
MINIMUM	0.30			24.9	0.520	1.96	75.6	0.002	6.00	0.675	
STD DEV (GEOM *)				20.0	3.051	7.39	55.4	0.005	2.07	5.573	
# SAMP IN STATISTICS	8			8	8	8	8	8	8	8	
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
			NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR		
SAMPLE DATE	HR	SAMPLE	UNF.TOT.	FIL.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	RESIDUE	TURB'ITY
YYMMDD	LMT	NUMBER	MG/L	MG/L	MG/L		UG/L	MG/L	MG/L	PARTIC.	FTU
			AS NI	AS N	AS PB	PH	PHENOL	AS P	AS P	MG/L	
830428	1530	14051	10.0	0.003	0.004<T	6.89	1.0	0.0020<T	0.080	43.200	51.00
830529	1940	14072	9.5	0.015	0.014	6.98	0.8	0.0960		443.000	
830617	2000	14085	24.0	0.002<	0.004<T	7.01	2.0	0.0310	0.060	36.600	50.00
830724	1700	14106	25.0	0.002<	0.060	7.72	0.4<T	0.0070	0.052	22.500	23.00
830823	1910	14116	25.0	0.002<	0.002<T	7.46	0.2<T	0.0110	0.050	14.500	8.40
830921	1620	14137	12.5	0.002<	0.006	7.32	1.0	0.0600	0.170	28.700	72.00
831028	1500	14154	6.0	0.005	0.018	7.32	0.2<W	0.0220	0.083	35.900	52.00
831126	1330	14174	1.0	0.008	0.020	6.84	0.2<T	0.0140	0.052	16.200	33.00

MAXIMUM	25.0	0.015	0.060	0.006	7.72	2.0	0.0960	0.170	443.000	72.00
ARITH MEAN	14.1	0.008	0.016<A	0.005	7.19	0.7<A	0.0304<A	0.078	80.075	41.34
GEOM MEAN	10.1		0.009<A		7.19	0.5<A	0.0174<A	0.071	37.383	34.72
MINIMUM	1.0	0.003	0.002	0.003	6.84	0.2	0.0020	0.050	14.500	8.40
STD DEV (GEOM *)	9.4		0.019<A		0.31	0.6<A	0.0322<A	0.043	146.994	21.26
# SAMP IN STATISTICS	8	4	8	3	8	8	8	7	8	7
% SAMP (EXCLUDED)		50		62						

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

13

B.O.W./ SITE: BAR RIVER  
SAMPLE POINT: AT FIRST BRIDGE ABOVE LAKE GEORGE  
STATION TYPE: RIVER

STATION ID: 02-0006-001-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: BAR RIVER

STORET CODE: 02  
002  
8500

LAT: 46 25 31.76 LONG: 084 05 19.16 U T M: 16 0723700.0 5145225.0 4 REGION: 05 DISTANCE: 2.897

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830428	1530	14051	0.012
830529	1940	14072	0.037
830617	2000	14085	0.008
830724	1700	14106	0.003
830823	1910	14116	0.003
830921	1620	14137	0.006
831028	1500	14154	0.026
831126	1330	14174	0.038
MAXIMUM			0.038
ARITH MEAN			0.017
GEOM MEAN			0.011
MINIMUM			0.003
STD DEV (GEOM *)			0.015
# SAMP IN STATISTICS			8
% SAMP (EXCLUDED)			

## 1983 WATER QUALITY DATA REGION 5

14

B.O.W./ SITE: ECHO RIVER  
 SAMPLE POINT: AT FIRST BRIDGE ABOVE ECHO BAY  
 STATION TYPE: RIVER

STATION ID: 02-0007-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: ECHO RIVER

STORET CODE: 02  
 002  
 8520

LAT: 46 30 34.67 LONG: 084 02 39.86 U T M: 16 0726750.0 5154700.0 4 REGION: 05 DISTANCE: 3.540

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
				ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
SAMPLE DATE	HOUR	SAMPLE	PROJECT	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	STREAM
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	COND.
			CODE	AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	
830428	1815	14052	0101	19.8	0.810	1.31	60.8	0.003	12.00	1.040	8
830529	2015	14073	0101	25.3	1.200	0.62	65.0	0.005	9.00	1.480	3
830617	0020	14086	0101	22.0	0.410	0.36	61.0	0.005	5.00	0.786	8
830724	1720	14107	0101	23.9	0.300	0.48	64.4	0.002	6.00	1.250	8
830823	1930	14117	0101	24.6	0.350	0.39	61.4	0.002	8.00	0.660	8
830921	1600	14138	0101	22.4	0.210	0.58	62.9	0.001<	9.00	0.735	8
831028	1520	14155	0101	21.9	0.770	0.48	60.0	0.010	10.00	0.815	8
831126	1400	14175	0101	21.5	0.530	0.45	61.1	0.002	12.00	0.560	8
MAXIMUM		0.30		25.3	1.200	1.31	65.0	0.010	12.00	1.480	
ARITH MEAN		0.30		22.7	0.572	0.58	62.1	0.004	8.87	0.916	
GEOM MEAN				22.6	0.495	0.54	62.1		8.53	0.872	
MINIMUM		0.30		19.8	0.210	0.36	60.0	0.002	5.00	0.560	
STD DEV (GEOM *)				1.8	0.332	0.31	1.8		2.53	0.316	
# SAMP IN STATISTICS		8		8	8	8	8	7	8	8	
% SAMP (EXCLUDED)								12			

*INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
			NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR		
SAMPLE DATE	HOUR	SAMPLE	UNF.TOT.	TOTAL	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	RESIDUE	TURB'ITY
YYMMDD	LMT	NUMBER	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	PARTIC.	FTU
			AS NI	AS N	AS PB		PHENOL	AS P	AS P	MG/L	
830428	1815	14052	10.0	0.001	0.018	7.04	0.8	0.0065	0.032	15.700	21.00
830529	2015	14073	9.5	0.002	0.008	7.12	0.6<T	0.0145	0.057	34.900	23.00
830617	0020	14086	23.0	0.002<	0.126	6.95	0.8	0.070	0.031	11.700	11.50
830724	1720	14107	25.0	0.002<	0.050	7.43	0.2<T	0.0140	0.028	18.600	28.00
830823	1930	14117	24.0	0.002<	0.002<T	7.32	1.2	0.0060	0.024	12.000	11.60
830921	1600	14138	14.5	0.002<	0.016	7.26	0.4<T	0.0060	0.019	10.900	17.00
831028	1520	14155	6.0	0.012	0.008	7.51	0.2<W	0.0050	0.025	13.800	17.00
831126	1400	14175	4.0	0.002	0.016	7.18	0.4<T	0.0050	0.018	4.300	9.90
MAXIMUM		25.0	0.012	0.126	0.065	7.51	1.2	0.070	0.057	34.900	28.00
ARITH MEAN		14.5	0.004	0.030<A	0.038	7.23	0.6<A	0.016	0.029	15.237	17.37
GEOM MEAN		12.1		0.016<A		7.22	0.5<A	0.010	0.027	13.207	16.37
MINIMUM		4.0	0.001	0.002	0.011	6.95	0.2	0.0050	0.018	4.300	9.90
STD DEV (GEOM *)		8.5		0.041<A		0.19	0.3<A	0.022	0.012	8.957	6.34
# SAMP IN STATISTICS		8	4	8	2	8	8	8	8	8	8
% SAMP (EXCLUDED)			50		75						

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

15

B.O.W./ SITE: ECHO RIVER  
SAMPLE POINT: AT FIRST BRIDGE ABOVE ECHO BAY  
STATION TYPE: RIVER

STATION ID: 02-0007-001-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: ECHO RIVER

STORET CODE: 02  
002  
8520

LAT: 46 30 34.67 LONG: 084 02 39.86 U T M: 16 0726750.0 5154700.0 4 REGION: 05 DISTANCE: 3.540

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
UNF.TOT.  
SAMPLE DATE HOUR SAMPLE SAMPLE UNF.TOT.  
YYMMDD LMT NUMBER MG/L  
AS ZN  
  
830428 1815 14052 0.005  
830529 2015 14073 0.006  
830617 0020 14086 0.008  
830724 1720 14107 0.002  
830823 1930 14117 0.002  
830921 1600 14138 0.072  
831028 1520 14155 0.065  
831126 1400 14175 0.006  
  
MAXIMUM 0.072  
ARITH MEAN 0.021  
GEOM MEAN 0.008  
MINIMUM 0.002  
STD DEV (GEOM \*) 0.030  
# SAMP IN STATISTICS 8  
% SAMP (EXCLUDED)



## 1983 WATER QUALITY DATA REGION 5

16

B.O.W./ SITE: BOYNE RIVER  
 SAMPLE POINT: OTTER LAKE OUTLET SOUTH OF PARRY SOUND  
 STATION TYPE: RIVER

STATION ID: 03-0096-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BOYNE RIVER

STORET CODE: 02  
 002  
 3500

LAT: 45 18 08.35 LONG: 079 57 14.33

U T M: 17 0582010.0 5016850.0 4

REGION: 05

DISTANCE: 10.943

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CRUT	CUUT	DO	FEUT	FWSTRC	FWTEMP
				ALK	CONDUCT.	CHROMIUM	COPPER	DISOLVED	IRON		
SAMPLE DATE	HOUR	SAMPLE	PROJECT	TOTAL	25C	UNF.TOT.	UNF.TOT.	OXYGEN	UNF.TOT.		WATER
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	MG/L	MG/L	STREAM	TEMP
			CODE	AS CAC03	AT 25 C	AS CR	AS CU	AS O	AS FE	COND.	DEG.C
830215		12021	0101	9.3	47.1	0.001<	0.002	11.00	0.075	8 6	1.0
830330		12022	0101	8.1	49.8	0.001<	0.003		0.040<T		
		MAXIMUM		9.3	49.8		0.003	11.00	0.075		1.0
		ARITH MEAN		8.7	48.4		0.002	11.00	0.057<A		1.0
		GEOM MEAN		8.7	48.4		0.002		0.055<A		
		MINIMUM		8.1	47.1		0.002	11.00	0.040		1.0
		STD DEV (GEOM *)		0.8	1.9		0.001		0.025<A		
		# SAMP IN STATISTICS	2	2	2		2	1	2		1
		% SAMP (EXCLUDED)									
*INTERIM TEST-NAME:		NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT	
		NICKEL	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC	
		UNF.TOT.	FIL.REAC	TOTAL	UNF.TOT.		UNF.TOT.	UNF.REAC		UNF.TOT.	
SAMPLE DATE	HOUR	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	TURB'ITY	MG/L	
YYMMDD	LMT	AS NI	AS N	AS N	AS PB	PH	AS P	AS S04	FTU	AS ZN	
830215		12021	0.115	0.250	0.004	7.01	0.013	8.46	0.54	0.006	
830330		12022	0.140	0.560	0.003<	6.56	0.010	7.88	0.58	0.005	
		MAXIMUM	0.140	0.560	0.004	7.01	0.013	8.46	0.58	0.006	
		ARITH MEAN	0.127	0.405	0.004	6.78	0.011	8.17	0.56	0.005	
		GEOM MEAN	0.127	0.374		6.78	0.011	8.16	0.56	0.005	
		MINIMUM	0.115	0.250	0.004	6.56	0.010	7.88	0.54	0.005	
		STD DEV (GEOM *)	0.018	0.219		0.32	0.002	0.41	0.03	0.001	
		# SAMP IN STATISTICS	2	2	1	2	2	2	2	2	
		% SAMP (EXCLUDED)			50						

## 1983 WATER QUALITY DATA REGION 5

17

B.O.W./ SITE: MC CURRY LAKE OUTLET  
 SAMPLE POINT: EMIL STREET PARRY SOUND  
 STATION TYPE: RIVER

STATION ID: 03-0097-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MC CURRY LAKE

STORET CODE: 02  
 002  
 3710

LAT: 45 19 50.92		LONG: 080 01 11.79		U T M: 17 0576800.0 5019950.0 4		REGION: 05		DISTANCE: 0.322			
*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FCMF	FEUT	FWSTRC
				ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	IRON	
				TOTAL	UNF.REAC	25C	UNF.TOT.	OXYGEN	COLIFORM	UNF.TOT.	
				MG/L	MG/L	UMHO/CM	MG/L	MG/L	MF	MG/L	STREAM
				AS CAC03	AS CL-	AT 25 C	AS CU	AS O	CNT	AS FE	COND.
									/100ML		
SAMPLE	DATE	TIME	SAMPLE	DEPTH							
830215	12001	0.30	0101	46.8	133.00	687.0	0.007	12.00	10<	0.345	8 6
830330	12002	0.30	0101	62.2	118.50	610.0	0.008		10<	0.180	
		MAXIMUM	0.30	62.2	133.00	687.0	0.008	12.00		0.345	
		ARITH MEAN	0.30	54.5	125.75	648.5	0.007	12.00		0.262	
		GEOM MEAN		54.0	125.54	647.4	0.007			0.249	
		MINIMUM	0.30	46.8	118.50	610.0	0.007	12.00		0.180	
		STD DEV (GEOM *)		10.9	10.25	54.4	0.001			0.117	
		# SAMP IN STATISTICS	2	2	2	2	2	1		2	
		% SAMP (EXCLUDED)									
*=INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP
			NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		P04	PHOSPHOR	
			UNF.TOT.	TOTAL	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.	FIL.REAC	UNF.TOT.	RESIDUE
			MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	PARTIC.
			AS NI	AS N	AS N	AS N	AS PB	PH	AS P	AS P	MG/L
SAMPLE	DATE	TIME	WATER								
830215	12001	1.0	0.002<	0.102	9.250	0.850	0.003<	7.35	0.3100	0.405	4.000
830330	12002		0.003	0.010	5.100	0.260	0.003<	7.72	0.2250	0.445	
		MAXIMUM	1.0	0.003	0.102	9.250	0.850	7.72	0.3100	0.445	4.000
		ARITH MEAN	1.0	0.003	0.056	7.175	0.555	7.53	0.2675	0.425	4.000
		GEOM MEAN			0.032	6.868	0.470	7.53	0.2641	0.425	
		MINIMUM	1.0	0.003	0.010	5.100	0.260	7.35	0.2250	0.405	4.000
		STD DEV (GEOM *)			0.065	2.934	0.417	0.26	0.0601	0.028	
		# SAMP IN STATISTICS	1	1	2	2	2	2	2	2	1
		% SAMP (EXCLUDED)		50							

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

18

B.O.W./ SITE: MC CURRY LAKE OUTLET  
 SAMPLE POINT: EMIL STREET PARRY SOUND  
 STATION TYPE: RIVER

STATION ID: 03-0097-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MC CURRY LAKE

STORET CODE: 02  
 002  
 3710

LAT: 45 19 50.92 LONG: 080 01 11.79 U T M: 17 0576800.0 5019950.0 4 REGION: 05 DISTANCE: 0.322

*=INTERIM TEST-NAME:		SS04UR	TCMF	TCMFBK	TURB	ZNUT	
		SULPHATE	COLIFORM	COLIFORM		ZINC	
		UNF.REAC	TOTAL	TOTAL MF		UNF.TOT.	
SAMPLE		MG/L	MF	BCKGRD		MG/L	
DATE	TIME	AS S04	CNT	CNT	TURB'ITY	AS ZN	
YYMMDD	LMT	NUMBER	/100ML	/100ML	FTU		
830215		12001	29.33	140	430	3.80	0.014
830330		12002	190<=>	3100	1.50	0.010	
		MAXIMUM	29.33	190	3100	3.80	0.014
		ARITH MEAN	29.33	165	1765	2.65	0.012
		GEOM MEAN		163	1155	2.39	0.012
		MINIMUM	29.33	140	430	1.50	0.010
		STD DEV (GEOM *)		1*	4*	1.63	0.003
		# SAMP IN STATISTICS	1	2	2	2	2
		% SAMP (EXCLUDED)					

## 1983 WATER QUALITY DATA REGION 5

19

B.O.W./ SITE: MAGNETAWAN RIVER  
 SAMPLE POINT: AT 1ST.BRIDGE DNSTR.FROM HIGHWAY NO 11  
 STATION TYPE: RIVER FLOW GAUGE FED 02EA006

STATION ID: 03-0124-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAGNETAWAN RIVER

STORET CODE: 02  
 002  
 4910

LAT: 45 37 18.81 LONG: 079 24 36.31

U T M: 17 0623950.0 5053050.0 4

REGION: 05

DISTANCE: 120.376

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWFLOW	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	STREAM	
DATE	HR	DEPTH	SUB-PROJ	TOTAL	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	FLOW	COND.
YYMMDD	LMT	NUMBER	CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	M3	
				AS CAC03	AS CL-	AT 25 C	AS CU	AS O	AS FE	/S	
830320	1000	13219	0101				0.004	8.00		17.600	6
830424	1415	13316	0101		2.42	47.3	0.001	11.00	0.400	22.000	6
830515	1500	13339	0101	6.7	1.25	36.2	0.001	9.00	0.265	34.000	6
830607	1450	13361	0101	22.4	1.22	38.2	0.002		0.165	18.800	
830807	1500	13405		12.8	2.67	54.7	0.005	8.00	0.495	2.600	6
830905	1525	13427	0101	15.1	5.36	67.2	0.002	8.00	0.455	1.820	6
831006	1345	13443	0101	11.9	3.07	54.1	0.002	8.00	0.435	5.400	6
831103	1240	13459	0101	10.6	2.70	52.4	0.001<	8.00	0.365	4.750	6
831201	1210	13475	0101	8.0	1.63	41.9		8.00	0.310	18.300	6
MAXIMUM		0.30		22.4	5.36	67.2	0.005	11.00	0.495	34.000	
ARITH MEAN		0.30		12.5	2.54	49.0	0.002	8.50	0.361	13.919	
GEOM MEAN				11.7	2.27	48.1		8.45	0.344	9.357	
MINIMUM		0.30		6.7	1.22	36.2	0.001	8.00	0.165	1.820	
STD DEV (GEOM *)				5.2	1.34	10.2		1.07	0.110	10.933	
# SAMP IN STATISTICS		8		7	8	8	7	8	8	9	
% SAMP (EXCLUDED)							12				

*INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP
SAMPLE		WATER	NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		PO4	PHOSPHOR	RESIDUE
DATE	HR	TEMP	UNF.TOT.	TOTAL	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	PARTIC.
YYMMDD	LMT	DEG.C	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	MG/L
			AS NI	AS N	AS N	AS N	AS PB	PH	AS P	AS P	
830320	1000	13219	12.0	0.002<	0.004<T	0.289	0.250	0.003<	0.005	0.015	
830424	1415	13316	7.0	0.002<	0.026	0.285	0.420	0.003<	6.98	0.0405	7.540
830515	1500	13339	14.0	0.002<	0.068	0.145	0.380	0.003<	6.78	0.0020	5.840
830607	1450	13361		0.002<	0.048	0.100	0.350	0.003<	6.90	0.0010<T	3.500
830807	1500	13405	16.0	0.002<	0.050	0.060	0.290	0.003<	7.06	0.0010<T	2.100
830905	1525	13427	18.0	0.002<	0.028	0.070	0.330	0.003<	7.22	0.0010<T	0.870<T
831006	1345	13443	8.0	0.002<	0.030	0.060	0.855	0.003<	7.00	0.0050	4.580
831103	1240	13459	7.0	0.002<	0.064	0.080	0.340	0.003<	6.96	0.2100	6.530
831201	1210	13475			0.020	0.095	0.330		7.07	0.0010<T	1.680
MAXIMUM		18.0		0.068	0.289	0.855		7.22	0.2100	0.245	7.540
ARITH MEAN		11.7		0.038<A	0.132	0.394		7.00	0.030 <A	0.045	4.080<A
GEOM MEAN		11.0		0.030<A	0.110	0.369		7.00	0.004 <A	0.021	3.302<A
MINIMUM		7.0		0.004	0.060	0.250		6.78	0.0010	0.008	0.870
STD DEV (GEOM *)		4.5		0.021<A	0.092	0.180		0.13	0.069 <A	0.077	2.439<A
# SAMP IN STATISTICS		7		9	9	9	8	9	9	9	8
% SAMP (EXCLUDED)											

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

20

B.O.W./ SITE: MAGNETAWAN RIVER

STATION ID: 03-0124-001-02

SAMPLE POINT: AT 1ST.BRIDGE DNSTR.FROM HIGHWAY NO 11

STATION TYPE: RIVER FLOW GAUGE FED 02EA006

MAJOR BASIN: GREAT LAKES

STORET CODE: 02

MINOR BASIN: LAKE HURON

002

TERM STREAM: MAGNETAWAN RIVER

4910

LAT: 45 37 18.81 LONG: 079 24 36.31

U T M: 17 0623950.0 5053050.0 4

REGION: 05

DISTANCE: 120.376

*=INTERIM TEST-NAME:		SS04UR	TURB	ZNUT
		SULPHATE		ZINC
		UNF.REAC		UNF.TOT.
SAMPLE		MG/L	TURB'ITY	MG/L
DATE	HR	AS S04	FTU	AS ZN
YYMMDD	LMT	NUMBER		
830320	1000	13219		0.009
830424	1415	13316	4.60	0.012
830515	1500	13339	7.42	0.001<
830607	1450	13361	7.75	0.004
830807	1500	13405	7.59	0.005
830905	1525	13427	7.69	0.006
831006	1345	13443	8.19	0.007
831103	1240	13459	8.27	0.003
831201	1210	13475	8.19	2.30
MAXIMUM		8.27	4.60	0.012
ARITH MEAN		7.87	2.56	0.007
GEOM MEAN		7.87	2.45	
MINIMUM		7.42	1.80	0.003
STD DEV (GEOM *)		0.34	0.89	
# SAMP IN STATISTICS		7	8	7
% SAMP (EXCLUDED)				12

## 1983 WATER QUALITY DATA REGION 5

21

B.O.W./ SITE: MAGNETAWAN RIVER  
 SAMPLE POINT: AT HIGHWAY 69  
 STATION TYPE: RIVER FLOW GAUGE FED 02EA011

STATION ID: 03-0124-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAGNETAWAN RIVER

STORET CODE: 02  
 002  
 4910

LAT: 45 46 28.25 LONG: 080 29 49.55 U T M: 17 0539100.0 5068900.0 4 REGION: 05 DISTANCE: 10.460

* = INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FCMF	FEUT	FSMF
									FECAL		FECAL
									COLIFORM		STREPCUS
									MF		MF
SAMPLE		SAMPLE	PROJECT	ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED		IRON	
DATE	HR	NUMBER	SUB-PROJ	TOTAL	UNF. REAC	25C	UNF. TOT.	OXYGEN		UNF. TOT.	
YYMMDD	LMT		CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L		MG/L	
				AS CAC03	AS CL-	AT 25 C	AS CU	AS O	/100ML	AS FE	CNT
											/100ML
830124		12060	0101	7.1	1.81	42.2	0.001		10<	0.230	10<
830427	1445	12061	0101	7.6	0.15<T	41.9	0.004	11.00	10<	0.170	10<
830525	1350	12062	0101	6.8	1.88	40.4	0.001	12.00	10<	0.160	20<=>
830623	1350	12063	0101	7.2	1.64	39.1	0.001<	8.50		0.120	
830810	1400	12064	0101	8.6	1.81	39.8	0.002	9.00		0.045	
830908		12065	0101	9.9	1.82	39.7	0.001	9.00		0.060	
831006	1000	12066	0101	9.4	1.77	43.9	0.003	9.50		0.140	
831124		12067	0101	8.7	1.95	40.4	0.002	13.50		0.185	
		MAXIMUM	0.30	9.9	1.95	43.9	0.004	13.50		0.230	20
		ARITH MEAN	0.30	8.2	1.60<A	40.9	0.002	10.36		0.139	20
		GEOM MEAN		8.1	1.33<A	40.9		10.22		0.123	
		MINIMUM	0.30	6.8	0.15	39.1	0.001	8.50		0.045	20
		STD DEV (GEOM *)		1.2	0.59<A	1.6		1.86		0.062	
		# SAMP IN STATISTICS	8	8	8	8	7	7		8	1
		% SAMP (EXCLUDED)					12				66

* = INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	HGUT	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH
							NH3-N		K'DAHL N		
							TOTAL	NO2+NO3N	TOTAL	LEAD	
							FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.	
SAMPLE		STREAM		WATER	MERCURY	NICKEL					
DATE	HR	FLOW	STREAM	TEMP	UNF. TOT.	UNF. TOT.					
YYMMDD	LMT	M3	COND.	DEG.C	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	PH
		/S			AS HG	AS NI	AS N	AS N	AS N	AS PB	
830124		12060	47.900	2.0	0.04	0.002<	0.028	0.145	0.310	0.036	6.78
830427	1445	12061	65.300	8	0.01<	0.008	0.205	0.310	0.003<	7.34	
830525	1350	12062	86.200	3	0.07	0.002<	0.050	0.150	0.003<	6.68	
830623	1350	12063	27.500	8	0.02	0.002<	0.034	0.095	0.003<	6.90	
830810	1400	12064	4.140	3	0.05	0.002<	0.034	0.040	0.003<	7.06	
830908		12065	4.280		0.14	0.002<	0.022	0.015	0.003<	7.04	
831006	1000	12066	17.100	8	15.0	0.01<	0.020	0.045	0.003<	7.39	
831124		12067	47.800		3.5	0.01<	0.010	0.100	0.003<	7.07	
		MAXIMUM	86.200	24.0	0.14		0.050	0.205	0.310	0.036	7.39
		ARITH MEAN	37.527	13.3	0.06		0.026	0.099	0.286	0.036	7.03
		GEOM MEAN	23.926	9.4			0.022	0.076	0.286		7.03
		MINIMUM	4.140	2.0	0.02		0.008	0.015	0.250	0.036	6.68
		STD DEV (GEOM *)	29.499	9.6			0.014	0.065	0.022		0.25
		# SAMP IN STATISTICS	8	6	5	8	8	8	8	1	8
		% SAMP (EXCLUDED)			28					87	

( C O N T D )



## 1983 WATER QUALITY DATA REGION 5

23

B.O.W./ SITE: BERNARD CREEK  
 SAMPLE POINT: 1ST.BRIDGE DNSTR.FROM SUNDRIDGE LAGOON  
 STATION TYPE: RIVER

STATION ID: 03-0124-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAGNETAWAN RIVER

STORET CODE: 02  
 002  
 4910

LAT: 45 42 38.82 LONG: 079 25 36.62 U T M: 17 0622450.0 5062900.0 4 REGION: 05 DISTANCE: 133.089

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWSRTR	FWTEMP
				ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON		
SAMPLE DATE	HOUR	SAMPLE	PROJECT	TOTAL	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	STREAM	WATER
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	COND.	TEMP
			CODE	AS CAC03	AS CL-	AT 25 C	AS CU	AS O	AS FE		DEG.C
830320	1100	13221	0101				0.003	9.00		6	2.0
830424	1525	13318	0101	12.2	5.62	60.1	0.001<	13.00	0.265	6	7.0
830515	1600	13341	0101	9.5	5.20	52.1	0.001	9.00	0.075	6	14.0
830607	1550	13363	0101	10.6	5.23	51.6	0.002		0.255		
830704	1535	13385	0101	11.0	5.35	58.7	0.002	8.00	0.135	6	24.0
830807	1600	13407	0101	11.6	5.05	58.6	0.003	9.00	0.315	6	18.0
830905	1620	13429	0101	10.8	6.49	63.2	0.001	8.00	0.090	6	19.0
831006	1455	13445	0101	13.2	8.09	75.9	0.001	9.00	0.190	6	7.0
831103	1320	13461	0101	12.4	5.71	59.6	0.001	9.00	0.130	6	7.0
831201	1255	13477	0101	8.7	5.79	55.2		8.00	0.200	6	
		MAXIMUM	0.30	13.2	8.09	75.9	0.003	13.00	0.315		24.0
		ARITH MEAN	0.30	11.1	5.84	59.4	0.002	9.11	0.184		12.2
		GEOM MEAN		11.0	5.78	59.1		9.01	0.166		9.7
		MINIMUM	0.30	8.7	5.05	51.6	0.001	8.00	0.075		2.0
		STD DEV (GEOM *)		1.4	0.95	7.2		1.54	0.083		7.6
		# SAMP IN STATISTICS	9	9	9	9	8	9	9		8
		% SAMP (EXCLUDED)					11				

*=INTERIM TEST-NAME:		NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP	SS04UR
		NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		P04	PHOSPHOR		SULPHATE
SAMPLE DATE	HOUR	UNF.TOT.	TOTAL	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	RESIDUE	UNF.REAC
YYMMDD	LMT	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	PARTIC.	MG/L
		AS NI	AS N	AS N	AS N	AS PB	PH	AS P	AS P	MG/L	AS S04
830320	1100	13221	0.002	0.004<T	0.106	0.210	0.003<		0.014		
830424	1525	13318	0.002<	0.190	0.070	0.610	0.003<	6.92	0.0120	0.037	6.960
830515	1600	13341	0.002<	0.030	0.080	0.310	0.003<	6.87	0.0035	0.008	2.300
830607	1550	13363	0.002<	0.070	0.040	0.370	0.003<	6.78	0.0010<T	0.016	2.960
830704	1535	13385	0.002<	0.040	0.025	0.360	0.003<	6.99	0.0020<T	0.018	1.890
830807	1600	13407	0.002<	0.064	0.010<T	0.320	0.003<	6.85	0.0015<T	0.014	3.610
830905	1620	13429	0.003	0.118	0.010<T	0.970	0.003	6.50	0.0005<T	0.032	4.940
831006	1455	13445	0.002<	0.298	0.065	0.640	0.003<	7.10	0.0900	0.120	2.510
831103	1320	13461	0.002<	0.010	0.030	0.170	0.003<	7.28	0.3800	0.415	1.880
831201	1255	13477		0.014	0.040	0.350		6.89	0.0010<T	0.020	10.900
		MAXIMUM	0.003	0.298	0.106	0.970	0.003	7.28	0.3800	0.415	10.900
		ARITH MEAN	0.002	0.084<A	0.048<A	0.431	0.003	6.91	0.049 <A	0.069	4.217
		GEOM MEAN		0.043<A	0.037<A	0.380		6.91	0.005 <A	0.030	3.516
		MINIMUM	0.002	0.004	0.010	0.170	0.003	6.50	0.0005	0.008	1.880
		STD DEV (GEOM *)		0.095<A	0.032<A	0.242		0.22	0.119 <A	0.126	3.003
		# SAMP IN STATISTICS	2	10	10	10	1	9	10	10	9
		% SAMP (EXCLUDED)	77				88				7

( C O N T D )



## 1983 WATER QUALITY DATA REGION 5

24

B.O.W./ SITE: BERNARD CREEK  
 SAMPLE POINT: 1ST.BRIDGE DNSTR.FROM SUNDRIDGE LAGOON  
 STATION TYPE: RIVER

STATION ID: 03-0124-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAGNETAWAN RIVER

STORET CODE: 02  
 002  
 4910

LAT: 45 42 38.82 LONG: 079 25 36.62

U T M: 17 0622450.0 5062900.0 4

REGION: 05

DISTANCE: 133.089

*INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
SAMPLE			UNF.TOT.
DATE	HR	SAMPLE	TURB'ITY
YYMMDD	LMT	NUMBER	FTU
			MG/L
			AS ZN
830320	1100	13221	0.005
830424	1525	13318	0.008
830515	1600	13341	0.001<
830607	1550	13363	0.006
830704	1535	13385	0.003
830807	1600	13407	0.003
830905	1620	13429	0.011
831006	1455	13445	0.004
831103	1320	13461	0.004
831201	1255	13477	3.00
MAXIMUM		3.50	0.011
ARITH MEAN		2.13	0.005
GEOM MEAN		1.96	
MINIMUM		1.20	0.003
STD DEV (GEOM *)		0.92	
# SAMP IN STATISTICS		9	8
% SAMP (EXCLUDED)			11

## 1983 WATER QUALITY DATA REGION 5

25

B.O.W./ SITE: BERNARD CREEK  
 SAMPLE POINT: AT HIGHWAY NO. 520  
 STATION TYPE: RIVER

STATION ID: 03-0124-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAGNETAWAN RIVER

STORET CODE: 02  
 002  
 4910

LAT: 45 36 25.79 LONG: 079 27 06.69 U T M: 17 0620725.0 5051350.0 4

REGION: 05

DISTANCE: 116.191

*=INTERIM		TEST-NAME:	FMSADP	FGPROJ	CLIDUR	COND25	DO	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N TOTAL	NNTKUR K'DAHL N TOTAL
SAMPLE DATE	HOUR		SAMPLE DEPTH	PROJECT	CHLORIDE	CONDUCT.	DISOLVED		WATER	FIL.REAC	FIL.REAC	UNF.REAC
YYMMDD	LMT	SAMPLE NUMBER	M	SUB-PROJ CODE	MG/L AS CL-	UMHO/CM AT 25 C	OXYGEN MG/L AS O	STREAM COND.	TEMP DEG.C	MG/L AS N	MG/L AS N	MG/L AS N
830320	1020	13220	0.30	0101			9.00	6	2.0	0.006	0.319	0.450
830424	1445	13317	0.30	0101	5.53	57.2	10.00	6	7.0	0.024	0.115	0.270
830515	1520	13340	0.30	0101	4.90	52.0	9.00	6	14.0	0.034	0.140	0.350
830607	1520	13362		0101	5.00	52.2				0.030	0.055	0.300
830704	1510	13384	0.30	0101	5.24	63.9	8.00		24.0	0.042	0.105	0.500
830807	1520	13406	0.30	0101	6.69	75.6	9.00	6	18.0	0.030	0.035	0.260
830905	1550	13428	0.30	0101	6.74	79.2	8.00	6	19.0	0.062	0.030	0.400
831006	1410	13444	0.30	0101	7.47	81.7	9.00	6	7.0	0.136	0.140	0.870
831103	1300	13460	0.30	0101	6.63	68.8	9.00	6	7.0	0.016	0.085	0.290
831201	1230	13476	0.30	0101	6.53	60.8	8.00	6		0.012	0.095	0.330
MAXIMUM			0.30		7.47	81.7	10.00		24.0	0.136	0.319	0.870
ARITH MEAN			0.30		6.08	65.7	8.78		12.2	0.039	0.112	0.402
GEOM MEAN					6.02	64.9	8.76		9.7	0.028	0.090	0.375
MINIMUM			0.30		4.90	52.0	8.00		2.0	0.006	0.030	0.260
STD DEV (GEOM *)					0.92	11.3	0.67		7.6	0.038	0.083	0.182
# SAMP IN STATISTICS			9		9	9	9		8	10	10	10
% SAMP (EXCLUDED)												
*=INTERIM		TEST-NAME:	PH	PPO4FR PO4	PPUT PHOSPHOR	RSP	TURB					
SAMPLE DATE	HOUR			FIL.REAC	UNF.TOT.	RESIDUE						
YYMMDD	LMT	SAMPLE NUMBER	PH	MG/L AS P	MG/L AS P	PARTIC. MG/L	TURB'ITY FTU					
830320	1020	13220		0.0065	0.055							
830424	1445	13317	7.00	0.0020<T	0.015	5.420	4.50					
830515	1520	13340	6.83	0.0045	0.021	10.900	8.90					
830607	1520	13362	6.92	0.0015<T	0.022	12.400	4.50					
830704	1510	13384	6.92	0.0020<T	0.030	6.060	4.80					
830807	1520	13406	7.22	0.0015<T	0.016	3.420	3.00					
830905	1550	13428	7.27	0.0010<T	0.015	2.840	1.70					
831006	1410	13444	6.58	0.0220	0.070	9.740	7.10					
831103	1300	13460	6.95	0.1340	0.160	2.230	2.60					
831201	1230	13476	6.77	0.0015<T	0.014	5.180	3.90					
MAXIMUM			7.27	0.1340	0.160	12.400	8.90					
ARITH MEAN			6.94	0.0176<A	0.042	6.466	4.56					
GEOM MEAN			6.94	0.0040<A	0.029	5.532	4.09					
MINIMUM			6.58	0.0010	0.014	2.230	1.70					
STD DEV (GEOM *)			0.21	0.0414<A	0.046	3.689	2.24					
# SAMP IN STATISTICS			9	10	10	9	9					
% SAMP (EXCLUDED)												

## 1983 WATER QUALITY DATA REGION 5

26

B.O.W./ SITE: PICKEREL RIVER  
 SAMPLE POINT: AT HIGHWAY 69  
 STATION TYPE: RIVER

STATION ID: 03-0130-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: PICKEREL RIVER

STORET CODE: 02  
 002  
 5330

LAT: 45 59 48.00		LONG: 080 34 02.65		U T M: 17 0533500.0 5093550.0 4				REGION: 05		DISTANCE: 27.680	
*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HOUR	NUMBER	SUB-PROJ	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	COND.
YYMMDD	LMT		CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	
				AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	
830124		12040	0101	15.9	0.083	1.85	64.4	0.005	12.50	0.290	
830427	1530	12041	0101	12.2	0.100	1.30	54.8	0.003	12.00	0.230	8
830525	1430	12042	0101	15.2	0.058	1.40	59.8	0.001	11.00	0.100	3
830623	1430	12043	0101	17.6	0.040	2.01	64.8	0.001<	10.00	0.080	3
830810	1430	12044	0101	17.0	0.022	2.32	66.5	0.001	9.00	0.065	3
830908		12045	0101	20.7	0.010	2.12	66.3	0.006	8.00	0.025<T	
831006	1150	12046	0101	20.5	0.019	2.12	69.6	0.013	9.00	0.048	8
831124		12047	0101	17.7	0.044	1.90	61.9	0.003	13.00	0.125	
		MAXIMUM	0.30	20.7	0.100	2.32	69.6	0.013	13.00	0.290	
		ARITH MEAN	0.30	17.1	0.047	1.88	63.5	0.005	10.56	0.120<A	
		GEOM MEAN		16.9	0.037	1.84	63.4		10.42	0.092<A	
		MINIMUM	0.30	12.2	0.010	1.30	54.8	0.001	8.00	0.025	
		STD DEV (GEOM *)		2.8	0.032	0.36	4.6		1.84	0.093<A	
		# SAMP IN STATISTICS	8	8	8	8	8	7	8	8	
		% SAMP (EXCLUDED)						12			
*=INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
SAMPLE		WATER	NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR		
DATE	HOUR	TEMP	UNF.TOT.	FIL.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	RESIDUE	TURB'ITY
YYMMDD	LHT	DEG.C	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	PARTIC.	FTU
			AS NI	AS N	AS PB		PHENOL	AS P	AS P	MG/L	
830124			0.002	0.022	0.003<	7.02	0.2<W	0.0020<T	0.011	1.530	1.60
830427	1530		0.001	0.004<T	0.003<	7.04	0.2<T	0.0005<T	0.028	3.410	2.70
830525	1430	10.5	0.002	0.004<T	0.003<	6.92	0.6<T	0.0030	0.019	1.570	1.00
830623	1430		0.001	0.044	0.003<	7.15	1.0	0.0030	0.013	0.744<T	1.20
830810	1430	24.0	0.002<	0.046	0.003<		1.6	0.0020<T	0.011	2.120	1.25
830908		23.5	0.002<	0.046	0.003<	7.43	0.2<W	0.0020<T	0.013	0.410<T	0.67
831006	1150	16.0	0.002<	0.028	0.003<	7.39	1.0	0.0020<T		2.880	1.30
831124		4.0	0.002	0.014	0.003<	7.05	0.2<T	0.0010<T	0.012	1.440	1.70
		MAXIMUM	0.002	0.046		7.43	1.6	0.0030	0.028	3.410	2.70
		ARITH MEAN	0.002	0.026<A		7.16	0.6<A	0.0019<A	0.015	1.763<A	1.43
		GEOM MEAN		0.018<A		7.15	0.4<A	0.0017<A	0.014	1.471<A	1.33
		MINIMUM	0.001	0.004		6.92	0.2	0.0005	0.011	0.410	0.67
		STD DEV (GEOM *)	8.6	0.018<A		0.20	0.5<A	0.0009<A	0.006	1.011<A	0.61
		# SAMP IN STATISTICS	5	5	8	7	8	8	7	8	8
		% SAMP (EXCLUDED)		37							

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

27

B.O.W./ SITE: PICKEREL RIVER  
SAMPLE POINT: AT HIGHWAY 69  
STATION TYPE: RIVER

STATION ID: 03-0130-001-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: PICKEREL RIVER

STORET CODE: 02  
002  
5330

LAT: 45 59 48.00 LONG: 080 34 02.65 U T M: 17 0533500.0 5093550.0 4 REGION: 05 DISTANCE: 27.680

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830124		12040	0.003
830427	1530	12041	0.004
830525	1430	12042	0.002
830623	1430	12043	0.002
830810	1430	12044	0.001<
830908		12045	0.001
831006	1150	12046	0.001<
831124		12047	0.002

MAXIMUM 0.004  
ARITH MEAN 0.002  
GEOM MEAN  
MINIMUM 0.001

STD DEV (GEOM \*)  
# SAMP IN STATISTICS 6  
% SAMP (EXCLUDED) 25

## 1983 WATER QUALITY DATA REGION 5

28

B.O.W./ SITE: FRENCH RIVER  
 SAMPLE POINT: AT HIGHWAY 69  
 STATION TYPE: RIVER

STATION ID: 03-0133-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 01 07.59 LONG: 080 35 00.16 U T M: 17 0532250.0 5096000.0 4 REGION: 05 DISTANCE: 28.967

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	ASUT	CDUT	CLIDUR	COND25	CRUT	CUUT
				ALK	ALUMINUM	ARSENIC	CADMIUM	CHLORIDE	CONDUCT.	CHROMIUM	COPPER
SAMPLE		SAMPLE	PROJECT	TOTAL	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	UNF.TOT.
DATE	HOUR	DEPTH	SUB-PROJ	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L
YYMMDD	LMT	NUMBER	CODE	AS CAC03	AS AL	AS AS	AS CD	AS CL-	AT 25 C	AS CR	AS CU
830124		12080	0101	19.7		0.001<					
830427	1600	12081	0101	17.4	0.070	0.001<	0.0002	2.10	67.1	0.001<	0.003
830525	1500	12082	0101	16.6	0.063	0.001<	0.0002<	1.91	65.4	0.001<	0.003
830623	1500	12083	0101	19.5	0.035	0.001<	0.0002<	2.16	66.7	0.001<	0.001
830704	1440	13383	0101	10.5				2.03	47.9		0.002
830810	1500	12084	0101	18.7	0.032	0.001<	0.0002<	2.26	67.4	0.001<	0.002
830908		12085	0101	19.4	0.021	0.001<	0.0002<	2.32	67.9	0.001<	0.002
831006	1230	12086	0101	18.3				2.45	68.2		
831124		12087	0101	23.5	0.036	0.001<	0.0002<	2.42	70.0	0.001<W	0.003
		MAXIMUM	0.30	23.5	0.070		0.0002	2.45	70.0	0.001	0.003
		ARITH MEAN	0.30	18.2	0.043		0.0002	2.21	65.1	0.001<A	0.002
		GEOM MEAN		17.8	0.039			2.20	64.7		0.002
		MINIMUM	0.30	10.5	0.021		0.0002	1.91	47.9	0.001	0.001
		STD DEV (GEOM *)		3.5	0.019			0.19	7.1		0.001
		# SAMP IN STATISTICS	9	9	6		1	8	8	1	7
		% SAMP (EXCLUDED)					83			83	

*=INTERIM TEST-NAME:		DO	FCMF	FEUT	FSMF	FWSTRC	FWTEMP	HGUT	NIUT	NNHTFR	NNOTFR
			FECAL	IRON	FECAL			MERCURY	NICKEL	NH3-N	NO2+NO3N
SAMPLE		DISOLVED	COLIFORM	UNF.TOT.	STREPCUS			UNF.TOT.	UNF.TOT.	TOTAL	FIL.REAC
DATE	HOUR	OXYGEN	MF	MG/L	MF	STREAM	WATER	UG/L	MG/L	MG/L	MG/L
YYMMDD	LMT	AS O	CNT	AS FE	CNT	COND.	TEMP	AS HG	AS NI	AS N	AS N
830124		12080	10<		10<			0.04		0.018	0.035
830427	1600	12081	10<	0.130	10<	8		0.04	0.002	0.002<T	0.105
830525	1500	12082	10<	0.095	10<	3	10.0	0.08	0.006	0.022	0.095
830623	1500	12083	10.00	0.065		3		0.02<	0.001	0.038	0.035
830704	1440	13383	8.00	0.482			25.0		0.002<	0.056	0.100
830810	1500	12084	8.00	0.025<T		3	23.0		0.003	0.046	0.015
830908		12085	9.00	0.030<T			23.5	0.03	0.002	0.038	0.020
831006	1230	12086	9.00	0.040<T		8	16.0	0.01		0.024	0.015
831124		12087	13.00	0.090			4.0	0.01	0.003	0.008	0.010<T
		MAXIMUM	13.00	0.482			25.0	0.08	0.006	0.056	0.105
		ARITH MEAN	9.94	0.120<A			16.9	0.03	0.003	0.028<A	0.048<A
		GEOM MEAN	9.80	0.075<A			14.3			0.020<A	0.034<A
		MINIMUM	8.00	0.025			4.0	0.01	0.001	0.002	0.010
		STD DEV (GEOM *)	1.78	0.151<A			8.5			0.018<A	0.040<A
		# SAMP IN STATISTICS	8	8			6	6	6	9	9
		% SAMP (EXCLUDED)						14	14		

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

29

B.O.W./ SITE: FRENCH RIVER  
 SAMPLE POINT: AT HIGHWAY 69  
 STATION TYPE: RIVER

STATION ID: 03-0133-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 01 07.59 LONG: 080 35 00.16 U T M: 17 0532250.0 5096000.0 4 REGION: 05 DISTANCE: 28.967

*INTERIM TEST-NAME:		NO2FR	NO3FR	NNTKUR	PBUT	PH	PHNOL	PP04FR	PPUT	RSF	RSP
		NO2-N	NO3-N	K'DAHL N	LEAD		PHENOLS	P04	PHOSPHOR		
SAMPLE		FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	RESIDUE	RESIDUE
DATE	HR	MG/L	MG/L	MG/L	MG/L		UG/L	MG/L	MG/L	FILTERED	PARTIC.
YYMMDD	LMT	AS N	AS N	AS N	AS PB	PH	PHENOL	AS P	AS P	MG/L	MG/L
830124		0.0020	0.033	0.270		7.29		0.0020<T	0.010	49.1	0.830<T
830427	1600	0.0015<T	0.104	0.310	0.003<	7.44	0.4<T	0.0015<T	0.028	43.6	1.810
830525	1500	0.0455	0.050	0.300	0.003<	6.97	1.2	0.0030	0.016	42.6	2.000
830623	1500	0.0060	0.029	0.300	0.003<	7.16	1.4	0.0020<T	0.015	43.4	1.190
830704	1440	13383		0.420	0.003<	6.86		0.0010<T	0.027		2.910
830810	1500	0.0020	0.013<T	0.240	0.003<	7.38		0.0030	0.011	43.8	1.000
830908		0.0030	0.017	0.270	0.003<	7.30	0.2<W	0.0030	0.011	44.1	0.630<T
831006	1230	0.0020	0.013<T	0.270		7.35	0.4<T	0.0040	0.017	44.3	0.630<T
831124		0.0020	0.008<T	0.250	0.003<	7.20	0.2<T	0.0020<T	0.010	45.5	1.000
	MAXIMUM	0.0455	0.104	0.420		7.44	1.4	0.0040	0.028	49.1	2.910
	ARITH MEAN	0.0080<A	0.033<A	0.292		7.22	0.6<A	0.0024<A	0.016	44.5	1.333<A
	GEOM MEAN	0.0034<A	0.024<A	0.288		7.21	0.5<A	0.0022<A	0.015	44.5	1.171<A
	MINIMUM	0.0015	0.008	0.240		6.86	0.2	0.0010	0.010	42.6	0.630
	STD DEV (GEOM *)	0.0152<A	0.032<A	0.053		0.19	0.5<A	0.0009<A	0.007	2.0	0.762<A
	# SAMP IN STATISTICS	8	8	9		9	6	9	9	8	9
	% SAMP (EXCLUDED)										

*INTERIM TEST-NAME:		SS04UR	TCHF	TCHFBK	TURB	ZNUT
		SULPHATE	COLIFORM	COLIFORM		ZINC
SAMPLE		UNF.REAC	TOTAL	TOTAL MF		UNF.TOT.
DATE	HR	MG/L	MF	BCKGRD		MG/L
YYMMDD	LMT	AS S04	CNT	CNT	TURB'ITY	AS ZN
			/100ML	/100ML	FTU	
830427	1600		20<	60<=>	1.30	0.002
830525	1500		30<=>	170	1.10	0.003
830623	1500				0.80	0.002
830704	1440	7.85			1.80	0.003
830810	1500				1.05	0.001
830908					0.51	0.003
831006	1230				1.00	
831124					1.20	0.001
	MAXIMUM	7.85	30	170	1.80	0.003
	ARITH MEAN	7.85	30	115	1.09	0.002
	GEOM MEAN			101	1.04	0.002
	MINIMUM	7.85	30	60	0.51	0.001
	STD DEV (GEOM *)			2*	0.38	0.001
	# SAMP IN STATISTICS	1	1	2	8	7
	% SAMP (EXCLUDED)		50			

## 1983 WATER QUALITY DATA REGION 5

30

B.O.W./ SITE: VEUVE RIVER  
 SAMPLE POINT: AT FIRST ROAD UPSTREAM FROM CACHE BAY  
 STATION TYPE: RIVER FLOW GAUGE FED 02DD012

STATION ID: 03-0133-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 4530

LAT: 46 21 00.10 LONG: 080 03 37.31

U T M: 17 0572300.0 5133150.0 4

REGION: 05

DISTANCE: 126.330

*=INTERIM TEST-NAME:			FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWFLOW	FWSTRC
					ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	STREAM	
SAMPLE			SAMPLE	PROJECT	TOTAL	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	FLOW	
DATE	HOUR	SAMPLE	DEPTH	SUB-PROJ	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	M3	STREAM
YYMMDD	LMT	NUMBER	M	CODE	AS CAC03	AS CL-	AT 25 C	AS CU	AS O	AS FE	/S	COND.
830411	0930	13301	0.30	0101	18.9	2.87	67.5		9.00		80.800	6
830424	0920	13306	0.30	0101	22.7	2.91	76.2	0.003	9.00	0.550	18.700	6
830515	1055	13332	0.30	0101	20.6	2.21		0.002	9.00		13.500	6
830607	1045	13354		0101	27.0	2.99	80.6	0.005		0.650	12.700	
830704	1030	13376	0.30	0101	52.7	4.03	136.0	0.005	8.00	0.562	2.340	6
830807	1100	13398	0.30	0101	65.9	5.34	165.0	0.004	8.00	0.240	0.750	6
830905	1100	13420	0.30	0101	94.2	11.60	236.0	0.005	6.00	0.205	0.813	6
831006	0935	13437	0.30	0101	30.4	4.34	108.9	0.005	8.00	1.050	15.000	6
831103	0920	13453	0.30	0101	28.0	3.13	102.3	0.004	9.00	0.530	6.760	6
831201	0855	13469	0.30	0101	20.9	2.81	87.6	0.004	9.00	0.650	13.600	6
MAXIMUM			0.30		94.2	11.60	236.0	0.005	9.00	1.050	80.800	
ARITH MEAN			0.30		38.1	4.22	117.8	0.004	8.33	0.555	16.496	
GEOM MEAN					32.7	3.73	108.8	0.004	8.27	0.495	7.426	
MINIMUM			0.30		18.9	2.21	67.5	0.002	6.00	0.205	0.750	
STD DEV (GEOM *)					25.0	2.75	54.1	0.001	1.00	0.263	23.483	
# SAMP IN STATISTICS			9		10	10	9	9	9	8	10	
% SAMP (EXCLUDED)												
*=INTERIM TEST-NAME:			FWTEMP	MNUT	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT
						NH3-N	NO2+NO3N	K'DAHL N	LEAD			
SAMPLE			WATER	HANGANSE	NICKEL	TOTAL	FIL.REAC	UNF.REAC	UNF.TOT.		PO4	PHOSPHOR
DATE	HOUR	SAMPLE	TEMP	UNF.TOT.	UNF.TOT.	MG/L	MG/L	MG/L	MG/L		FIL.REAC	UNF.TOT.
YYMMDD	LMT	NUMBER	DEG.C	MG/L	MG/L	AS N	AS N	AS N	AS PB	PH	AS P	MG/L
830411	0930	13301	2.0			0.006	0.240	0.200		7.42	0.0080	0.026
830424	0920	13306	4.0	0.0350	0.008	0.006	0.175	0.380	0.003<	7.45	0.0065	0.031
830515	1055	13332	15.0		0.002<			0.780	0.003<	7.00		0.035
830607	1045	13354			0.008	0.008	0.165	0.440	0.003<	7.23	0.0110	0.045
830704	1030	13376	25.0	0.0770	0.007	0.080	0.025	0.600	0.003<	7.48	0.0190	0.053
830807	1100	13398	15.0	0.0310	0.002	0.090	0.005<T	0.560	0.003<	7.75	0.0060	0.027
830905	1100	13420	17.0	0.0450	0.003	0.068	0.010<T	0.560	0.003<	8.06	0.0020<T	0.023
831006	0935	13437	7.0	0.0500	0.006	0.046	0.115	0.180	0.003<	7.29	0.0120	0.013
831103	0920	13453	5.0		0.006	0.034	0.045	0.450	0.003<	7.20	0.0050	0.022
831201	0855	13469			0.008	0.046	0.110	0.620	0.003	7.15	0.0035	0.031
MAXIMUM			25.0	0.0770	0.008	0.090	0.240	0.780	0.003	8.06	0.0190	0.053
ARITH MEAN			11.2	0.0476	0.006	0.043	0.099<A	0.477	0.003	7.40	0.0081<A	0.031
GEOM MEAN			8.5	0.0452		0.028	0.055<A	0.436		7.40	0.0067<A	0.029
MINIMUM			2.0	0.0310	0.002	0.006	0.005	0.180	0.003	7.00	0.0020	0.013
STD DEV (GEOM *)			8.0	0.0181		0.032	0.083<A	0.188		0.31	0.0052<A	0.012
# SAMP IN STATISTICS			8	5	8	9	9	10	1	10	9	10
% SAMP (EXCLUDED)					11				88			

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

31

B.O.W./ SITE: VEUVE RIVER  
 SAMPLE POINT: AT FIRST ROAD UPSTREAM FROM CACHE BAY  
 STATION TYPE: RIVER FLOW GAUGE FED 02DD012

STATION ID: 03-0133-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 4530

LAT: 46 21 00.10 LONG: 080 03 37.31

U T M: 17 0572300.0 5133150.0 4 REGION: 05

DISTANCE: 126.330

*=INTERIM TEST-NAME:		RSP	SS04UR	TURB	ZNUT
		SULPHATE			ZINC
SAMPLE		RESIDUE	UNF.REAC		UNF.TOT.
DATE	HOUR	PARTIC.	MG/L	TURB'ITY	MG/L
YYMMDD	LMT	MG/L	AS SO4	FTU	AS ZN
830411	0930	13301	60.100	8.83	34.00
830424	0920	13306	10.400	10.87	9.00
830515	1055	13332	12.900		0.003
830607	1045	13354	14.900	10.26	9.60
830704	1030	13376	9.310	9.97	4.00
830807	1100	13398	4.870		5.20
830905	1100	13420	5.180	13.86	4.20
831006	0935	13437	12.800	15.61	15.60
831103	0920	13453	6.000	15.59	8.70
831201	0855	13469	2.520	17.20	8.10
MAXIMUM		60.100	17.20	34.00	0.015
ARITH MEAN		13.898	12.77	10.93	0.006
GEOM MEAN		9.413	12.43	8.69	
MINIMUM		2.520	8.83	4.00	0.001
STD DEV (GEOM *)		16.735	3.16	9.35	
# SAMP IN STATISTICS		10	8	9	8
% SAMP (EXCLUDED)					11



## 1983 WATER QUALITY DATA REGION 5

32

B.O.W./ SITE: STURGEON RIVER  
 SAMPLE POINT: 4MI.DOWNSTREAM FROM HIGHWAY NO.17  
 STATION TYPE: RIVER FLOW GAUGE FED 02DC003

STATION ID: 03-0133-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNAL

STORET CODE: 02  
 002  
 5430

LAT: 46 19 28.28 LONG: 079 58 20.88

U T M: 17 0579100.0 5130400.0 4

REGION: 05

DISTANCE: 117.318

**INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5	CLIDUR	COD	COND25	DO	FWFLOW	FWTEMP	NNOTFR
				5 DAY							
SAMPLE		SAMPLE	PROJECT	TOT.DEM.	CHLORIDE	CHEM. OX	CONDUCT.	DISOLVED	STREAM	WATER	NO2+NO3N
DATE	HR	DEPTH	SUB-PROJ	MG/L	UNF.REAC	DEMAND	25C	OXYGEN	FLOW	TEMP	FIL.REAC
YYMMDD	LMT	NUMBER	CODE	AS O	MG/L	MG/L	UMHO/CM	MG/L	M3	DEG.C	MG/L
		M			AS CL-	AS O	AT 25 C	AS O	/S		AS N
830622	1130	11659	0101	2.72	0.69	17.6	67.4	8.20	90.600	21.5	0.035
830624		11666	0101	3.94	0.87	21.6	70.0	7.80	82.600	22.0	0.005<T
830704	1120	11669	0101	2.23	0.84	21.0	76.7	7.30	54.200	22.5	0.010<T
830712	1100	11679	0101	2.49	0.76	28.1	76.2	6.90	40.200	21.8	0.005<T
830726	1052	11692	0101	3.16	0.82	32.7	85.1	5.80	33.000	23.5	0.005<W
830802	1105	11692	0101	2.18	1.06	38.2	85.8	5.40	32.800	24.0	0.010<T
830810	1535	11706	0101	4.76	1.07	38.2	83.4	5.60	35.300	23.5	0.015
830816	1150	11713	0101	2.98	0.94	44.9	84.4	5.70	31.900	22.5	0.005<T
830823	1140	11720	0101	2.49	1.06	36.8	83.9	5.80	30.200	22.0	0.005<T
830831	1130	11727	0101	2.90	1.03	63.3	84.6	5.20	24.500	22.5	0.010<T
MAXIMUM		0.30		4.76	1.07	63.3	85.8	8.20	90.600	24.0	0.035
ARITH MEAN		0.30		2.98	0.91	34.2	79.7	6.37	45.530	22.6	0.010<A
GEOM MEAN				2.90	0.90	32.0	79.5	6.29	41.376	22.6	0.008<A
MINIMUM		0.30		2.18	0.69	17.6	67.4	5.20	24.500	21.5	0.005
STD DEV (GEOM *)				0.81	0.14	13.5	6.8	1.08	23.084	0.8	0.009<A
# SAMP IN STATISTICS		10		10	10	10	10	10	10	10	10
% SAMP (EXCLUDED)											
**INTERIM TEST-NAME:		NNTKUR	PH	PHNOL	PPUT	RSP	SS04UR	TURB			
		K'DAHL N									
		TOTAL									
SAMPLE		UNF.REAC		PHENOLS	PHOSPHOR	RESIDUE	SULPHATE				
DATE	HR	MG/L		UNF.REAC	UNF.TOT.	PARTIC.	UNF.REAC				
YYMMDD	LMT	AS N	PH	UG/L	MG/L	MG/L	MG/L				
				PHENOL	AS P		AS S04	TURB'ITY			
								FTU			
830622	1130	11659	0.240	6.87	7.8	0.025	3.520	11.84	2.20		
830624		11666	0.260	6.93	6.2	0.008	3.340	12.58	2.50		
830704	1120	11669	0.300	6.77	9.0	0.013	3.820	12.78	1.20		
830712	1100	11679	0.350	6.88	10.0	0.025	3.620	12.78	3.20		
830726	1052	11692	0.310	6.99	15.6	0.018	3.660	13.30	2.50		
830802	1105	11692	0.250	8.08	12.0	0.016	4.430	12.65	3.40		
830810	1535	11706	0.140	7.22	15.0	0.010	1.480	12.97	2.50		
830816	1150	11713	0.420	6.62	15.8	0.032	4.030	13.43	2.80		
830823	1140	11720	0.310	6.85	17.2	0.015	5.580	13.44	5.20		
830831	1130	11727	0.470	6.82	21.6	0.017	8.500	12.05	5.00		

(CONTD)

## 33

STORET CODE: 02  
002  
5430

**DISTANCE: 117.318**

*INTERIM		TEST-NAME:	NNTKUR	PH	PHNOL	PPUT	RSP	SS04UR	TURB
			K'DAHL N						
			TOTAL		PHENOLS	PHOSPHOR		SULPHATE	
			UNF.REAC		UNF-REAC	UNF.TOT.	RESIDUE	UNF.REAC	
SAMPLE			MG/L		UG/L	MG/L	PARTIC.	MG/L	TURB'ITY
DATE	HOUR	SAMPLE	AS N	PH	PHENOL	AS P	MG/L	AS S04	FTU
YYMMDD	LMT	NUMBER							
		MAXIMUM	0.470	8.08	21.6	0.032	8.500	13.44	5.20
		ARITH MEAN	0.305	7.00	13.0	0.018	4.198	12.78	3.05
		GEOM MEAN	0.291	6.99	12.2	0.017	3.866	12.77	2.83
		MINIMUM	0.140	6.62	6.2	0.008	1.480	11.84	1.20
		STD DEV (GEOM *)	0.094	0.41	4.8	0.007	1.821	0.54	1.23
#	SAMP	IN STATISTICS	10	10	10	10	10	10	10
		% SAMP (EXCLUDED)							

## 1983 WATER QUALITY DATA REGION 5

34

B.O.W./ SITE: STURGEON RIVER  
 SAMPLE POINT: AT BRIDGE IN STURGEON FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02DC003

STATION ID: 03-0133-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNAL

STORET CODE: 02  
 002  
 5430

LAT: 46 22 12.29 LONG: 079 56 06.76

U T M: 17 0581900.0 5135500.0 4

REGION: 05

DISTANCE: 124.077

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5	CLIDUR	COD	COND25	DO	FWFLOW	FWTEMP	NNOTFR
				BOD							
				5 DAY	CHLORIDE	CHEM. OX	CONDUCT.	DISOLVED	STREAM		NO2+NO3N
				TOT. DEM.	UNF. REAC	DEMAND	25C	OXYGEN	FLOW	WATER	FIL. REAC
				MG/L	MG/L	MG/L		MG/L	M3	TEMP	MG/L
				AS O	AS CL-	AS O	UMHO/CH	AS O	/S	DEG.C	AS N
							AT 25 C				
SAMPLE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
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DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	

(CONTD)

## 35

STORET CODE: 02  
002  
5430

**DISTANCE: 124.077**

* = INTERIM		TEST-NAME:	NNTKUR K'DAHL N TOTAL UNF. REAC	PH	PHNOL PHENOLS UNF-REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	SS04UR SULPHATE UNF. REAC	TURB
SAMPLE DATE	HOUR YYMMDD	SAMPLE LMT	MG/L AS N	PH	UG/L PHENOL	MG/L AS P	MG/L	MG/L AS S04	TURB'ITY FTU
			0.300	7.55	3.0	0.016	21.300	12.25	3.00
		ARITH MEAN	0.229	7.26	1.6<A	0.011	5.449	11.84	1.61
		GEOM MEAN	0.225	7.25	1.3<A	0.011	4.024	11.84	1.54
		MINIMUM	0.140	7.02	0.2	0.006	2.090	11.27	1.05
		STD DEV (GEOM *)	0.044	0.16	0.9<A	0.003	6.092	0.33	0.57
#	SAMP IN STATISTICS		10	10	10	10	9	10	10
	% SAMP (EXCLUDED)								

## 1983 WATER QUALITY DATA REGION 5

36

B.O.W./ SITE: CALLANDER BAY  
 SAMPLE POINT: NEAR DOCKS CALLANDER BAY  
 STATION TYPE: LAKE

STATION ID: 03-0133-009-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 13 16.49 LONG: 079 22 19.64 U T M: 17 0625550.0 5119700.0 4 REGION: 05

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FCHF	FEUT	FWSTRC	FWTEMP
				ALK	CONDUCT.	COPPER	DISOLVED	FECAL	IRON		
SAMPLE		SAMPLE	PROJECT	TOTAL	25C	UNF. TOT.	OXYGEN	COLIFORM	UNF. TOT.	STREAM	WATER
DATE	HOUR	NUMBER	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	HF	MG/L	COND.	TEMP
YYMMDD	LMT		CODE	AS CAC03	AT 25 C	AS CU	AS O	CNT	AS FE		DEG.C
								/100ML			
830424	1330	13315	0101	18.3	79.1	0.001	8.00	10<	0.230	6	4.0
830515	1400	13338	0101	20.4		0.001<	8.00	10<		6	11.0
830607	1355	13360	0101	19.8	70.9	0.004		30<=>	0.185		
830704	1345	13382	0101	20.4	78.3	0.005	8.00	180<=>	0.796		24.0
830807	1400	13404	0101	20.3	75.8	0.002	9.00	10<	0.120	6	18.0
830905	1430	13426	0101	23.1	82.9	0.002	8.00	20<	0.285	6	18.0
		MAXIMUM	0.30	23.1	82.9	0.005	9.00	180	0.796		24.0
		ARITH MEAN	0.30	20.4	77.4	0.003	8.20	105	0.323		15.0
		GEOM MEAN		20.3	77.3		8.19		0.259		12.8
		MINIMUM	0.30	18.3	70.9	0.001	8.00	30	0.120		4.0
		STD DEV (GEOM *)		1.6	4.4		0.45		0.271		7.7
		# SAMP IN STATISTICS	5	6	5	5	5	2	5		5
		% SAMP (EXCLUDED)				16		66			
*INTERIM TEST-NAME:		NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TCMF	TCMFBK	TURB
				K'DAHL N					COLIFORM	COLIFORM	
SAMPLE		NICKEL	NO2+NO3N	TOTAL	LEAD		PHOSPHOR	SULPHATE	TOTAL	TOTAL HF	
DATE	HOUR	UNF. TOT.	FIL. REAC	UNF. REAC	UNF. TOT.		UNF. TOT.	UNF. REAC	HF	BCKGRD	TURB'ITY
YYMMDD	LMT	MG/L	MG/L	MG/L	MG/L	PH	MG/L	MG/L	CNT	CNT	FTU
		AS NI	AS N	AS N	AS PB		AS P	AS S04	/100ML	/100ML	
830424	1330	0.002<	0.210	0.540	0.003<	7.13	0.032	7.01	40<=>	220	2.00
830515	1400	0.002<		0.620	0.003<	6.79	0.022		270<=>	3500	
830607	1355	0.002<	0.055	0.450	0.003<	7.36	0.020	9.41	800<=>	240000>	2.20
830704	1345	0.002<	0.045	0.590	0.005	7.23	0.049	9.73	130000<=>	110E+05	10.00
830807	1400	0.002<	0.025	0.400	0.003<	7.43	0.017	9.76	1100<=>	220000	1.65
830905	1430	0.002<	0.015	0.750	0.003<	7.10	0.028	10.16	400<=>	5100	3.30
		MAXIMUM	0.210	0.750	0.005	7.43	0.049	10.16	130000	110E+05	10.00
		ARITH MEAN	0.070	0.558	0.005	7.17	0.028	9.21	22102	2245764	3.83
		GEOM MEAN	0.045	0.547		7.17	0.026	9.14	889		2.99
		MINIMUM	0.015	0.400	0.005	6.79	0.017	7.01	40	220	1.65
		STD DEV (GEOM *)	0.080	0.125		0.23	0.012	1.26	15*		3.50
		# SAMP IN STATISTICS	5	6	1	6	6	5	6	5	5
		% SAMP (EXCLUDED)			83					16	

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

37

B.O.W./ SITE: CALLANDER BAY  
SAMPLE POINT: NEAR DOCKS CALLANDER BAY  
STATION TYPE: LAKE

STATION ID: 03-0133-009-01

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
002  
5430

LAT: 46 13 16.49 LONG: 079 22 19.64 U T M: 17 0625550.0 5119700.0 4 REGION: 05

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830424	1330	13315	0.002
830515	1400	13338	0.001<
830607	1355	13360	0.005
830704	1345	13382	0.007
830807	1400	13404	0.001
830905	1430	13426	0.002
MAXIMUM			0.007
ARITH MEAN			0.003
GEOM MEAN			
MINIMUM			0.001
STD DEV (GEOM *)			
# SAMP IN STATISTICS			5
% SAMP (EXCLUDED)			16

## 1983 WATER QUALITY DATA REGION 5

38

B.O.W./ SITE: LAKE NIPISSING  
 SAMPLE POINT: AT AMELIA BEACH NORTH BAY  
 STATION TYPE: LAKE

STATION ID: 03-0133-010-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 17 48.35 LONG: 079 27 48.14 U T M: 17 0618350.0 5127950.0 4 REGION: 05

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FCMF FECAL	FEUT	FWSTRC	FWTEMP	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	DISOLVED OXYGEN MG/L AS O	COLIFORM MF CNT /100ML	IRON UNF.TOT. MG/L AS FE	STREAM COND.	WATER TEMP DEG.C
830424	1145	13311	0.30	0101	22.7	254.0	0.003	8.00	270	1.400	6	4.0
830515	0830	13327	0.30	0101	26.0		0.001<	8.00	780		6	10.0
830607	0845	13349		0101	25.3	213.0	0.012		6900	1.730		
830704	0820	13371	0.30	0101	21.3	80.6	0.005	8.00	100<=>	0.549	6	23.0
830802	0750	13393	0.30	0101	21.8	86.3	0.009	9.00	40<=>	0.220	6	17.0
830905	0810	13415	0.30	0101	23.6	84.4	0.005	8.00	40<=>	0.265	6	18.0
	MAXIMUM		0.30		26.0	254.0	0.012	9.00	6900	1.730		23.0
	ARITH MEAN		0.30		23.4	143.7	0.007	8.20	1355	0.833		14.4
	GEOM MEAN				23.4	126.0		8.19	248	0.600		12.3
	MINIMUM		0.30		21.3	80.6	0.003	8.00	40	0.220		4.0
	STD DEV (GEOM *)				1.9	83.3		0.45	7*	0.690		7.4
	# SAMP IN STATISTICS	5			6	5	5	5	6	5		5
	% SAMP (EXCLUDED)						16					
*=INTERIM TEST-NAME:		NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	SSO4UR	TCHF COLIFORM	TCHFBK COLIFORM	TURB	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	NICKEL UNF.TOT. MG/L AS NI	NO2+NO3N FIL.REAC MG/L AS N	K'DAHL N TOTAL UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PHOSPHOR UNF.TOT. MG/L AS P	SULPHATE UNF.REAC MG/L AS S04	TOTAL HF CNT /100ML	TOTAL MF BCKGRD CNT /100ML	TURB'ITY FTU	
830424	1145	13311	0.003	2.660	0.700	0.003<	7.11	0.079	11.59	1300	2800	9.20
830515	0830	13327	0.004		1.150	0.003	6.93	0.093		6900<=>	58000	
830607	0845	13349	0.004	1.100	0.920	0.012	7.00	0.108	11.75	93000<=>	660000	10.20
830704	0820	13371	0.002	0.045	0.540	0.003	7.35	0.056	10.42	10000<	240E+05	5.00
830802	0750	13393	0.002<	0.045	0.410	0.003<	7.51	0.025	10.67	5500<=>	110000	2.20
830905	0810	13415	0.005	0.015	0.490	0.003<	7.48	0.026	10.76	1400<=>	150000	6.30
	MAXIMUM		0.005	2.660	1.150	0.012	7.51	0.108	11.75	93000	240E+05	10.20
	ARITH MEAN		0.004	0.773	0.702	0.006	7.23	0.064	11.04	21620	4163466	6.58
	GEOM MEAN			0.155	0.657		7.23	0.055	11.03		186769	5.79
	MINIMUM		0.002	0.015	0.410	0.003	6.93	0.025	10.42	1300	2800	2.20
	STD DEV (GEOM *)			1.151	0.284		0.25	0.035	0.59		20*	3.23
	# SAMP IN STATISTICS	5		5	6	3	6	6	5	5	6	5
	% SAMP (EXCLUDED)	16				50			16			

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

39

B.O.W./ SITE: LAKE NIPISSING  
SAMPLE POINT: AT AMELIA BEACH NORTH BAY  
STATION TYPE: LAKE

STATION ID: 03-0133-010-01

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
002  
5430

LAT: 46 17 48.35 LONG: 079 27 48.14 U T M: 17 0618350.0 5127950.0 4 REGION: 05

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830424	1145	13311	0.025
830515	0830	13327	0.010
830607	0845	13349	0.031
830704	0820	13371	0.017
830802	0750	13393	0.005
830905	0810	13415	0.008

MAXIMUM 0.031  
ARITH MEAN 0.016  
GEOM MEAN 0.013  
MINIMUM 0.005  
STD DEV (GEOM \*) 0.010  
# SAMP IN STATISTICS 6  
% SAMP (EXCLUDED)



## 1983 WATER QUALITY DATA REGION 5

40

B.O.W./ SITE: LAKE NIPISSING  
 SAMPLE POINT: DOWNSTREAM GOVERNMENT DOCKS NORTH BAY  
 STATION TYPE: LAKE

STATION ID: 03-0133-011-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 18 37.33 LONG: 079 28 17.15 U T M: 17 0617700.0 5129450.0 4 REGION: 05

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FCMF FECAL COLIFORM	FEUT	FWSTRC	FWTEMP
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF. TOT. MG/L AS CU	DISOLVED OXYGEN MG/L AS O	IRON UNF. TOT. MG/L AS FE	STREAM COND.	WATER TEMP DEG.C
830424	1115	13709	0.30	0101	22.3	88.8	0.002	8.00	20<=>	6	4.0
830515	0845	13328	0.30	0101	27.9		0.001<	8.00	1130	6	11.0
830607	0900	13350		0101	20.8	87.4	0.006		1500		
830704	0850	13372	0.30	0101	22.9	110.9	0.026	8.00	500<=>	6	25.0
830802	0820	13394	0.30	0101	22.4	82.6	0.008	9.00	380<=>	6	17.0
830905	0845	13416	0.30	0101	24.0	83.5	0.012	8.00	200<=>	6	18.0
	MAXIMUM		0.30		27.9	110.9	0.026	9.00	1500		25.0
	ARITH MEAN		0.30		23.4	90.6	0.011	8.20	622		15.0
	GEOM MEAN				23.3	90.1		8.19	330		12.7
	MINIMUM		0.30		20.8	82.6	0.002	8.00	20		4.0
	STD DEV (GEOM *)				2.4	11.6		0.45	5*		7.9
	# SAMP IN STATISTICS	5			6	5	5	5	6	5	5
	% SAMP (EXCLUDED)					16					

*=INTERIM TEST-NAME:		NIUT	NNOTFR	NNTKUR K'DAHL N	PBUT	PH	PPUT	SS04UR	TCMF COLIFORM TOTAL MF	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	NICKEL UNF. TOT. MG/L AS NI	NO2+NO3N FIL. REAC MG/L AS N	UNF. REAC MG/L AS N	LEAD UNF. TOT. MG/L AS PB	PHOSPHOR UNF. TOT. MG/L AS P	SULPHATE UNF. REAC MG/L AS S04	CNT /100ML	CNT /100ML		
830424	1115	13709	0.002	0.140	0.400	0.003<	7.38	0.021	10.40	260	1450	1.20
830515	0845	13328	0.008		0.640	0.003<	7.10	0.056		5600	21000	
830607	0900	13350	0.004	0.270	0.560	0.009	7.03	0.061	11.69	11300<=>	240000>	4.30
830704	0850	13372	0.015	0.375	1.400	0.022	7.08	0.125	10.19	20000<=>	130E+05	22.00
830802	0820	13394	0.002	0.010<T	0.520	0.003<	7.42	0.017	10.55	1200<=>	240000>	2.50
830905	0845	13416	0.007	0.045	1.070	0.009	7.04	0.105	11.13	11000<=>	520000	11.30
	MAXIMUM		0.015	0.375	1.400	0.022	7.42	0.125	11.69	20000	130E+05	22.00
	ARITH MEAN		0.006	0.168<A	0.765	0.013	7.17	0.064	10.79	8227	3385612	8.26
	GEOM MEAN		0.005	0.091<A	0.694		7.17	0.050	10.78	4039		5.03
	MINIMUM		0.002	0.010	0.400	0.009	7.03	0.017	10.19	260	1450	1.20
	STD DEV (GEOM *)		0.005	0.153<A	0.387		0.18	0.044	0.61	5*		8.61
	# SAMP IN STATISTICS	6	5	6	3	6	6	6	5	6	4	5
	% SAMP (EXCLUDED)				50						33	

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

41

B.O.W./ SITE: LAKE NIPISSING  
SAMPLE POINT: DOWNSTREAM GOVERNMENT DOCKS NORTH BAY  
STATION TYPE: LAKE

STATION ID: 03-0133-011-01

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
002  
5430

LAT: 46 18 37.33 LONG: 079 28 17.15 U T M: 17 0617700.0 5129450.0 4 REGION: 05

*=INTERIM TEST-NAME:		ZNUT	
		ZINC	
SAMPLE		UNF.TOT.	
DATE	HOUR	SAMPLE	MG/L
YYMMDD	LMT	NUMBER	AS ZN
830424	1115	13709	0.006
830515	0845	13328	0.015
830607	0900	13350	0.018
830704	0850	13372	0.041
830802	0820	13394	0.005
830905	0845	13416	0.020
MAXIMUM			0.041
ARITH MEAN			0.017
GEOM MEAN			0.014
MINIMUM			0.005
STD DEV (GEOM *)			0.013
# SAMP IN STATISTICS			6
% SAMP (EXCLUDED)			

## 1983 WATER QUALITY DATA REGION 5

42

B.O.W./ SITE: DUCHESNAY RIVER  
 SAMPLE POINT: HWY.17 UPSTREAM OF NORDFIBRE  
 STATION TYPE: RIVER FLOW GAUGE FED 02DD008

STATION ID: 03-0133-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 20 01.71 LONG: 079 30 32.79

U T M: 17 0614750.0 5131999.0 4

REGION: 05

DISTANCE: 114.743

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HOUR	NUMBER	SUB-PROJ	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	STREAM
YYMMDD	LMT		CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	COND.
				AS CACO3	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	
830424	0800	13304	0101	6.1	0.180	3.19	39.1	0.001<	8.00	0.275	6
830515	0925	13330	0101	4.5	0.074	2.85		0.001<	9.00		6
830607	0940	13352	0101	4.5	0.240	3.03	36.6	0.002		0.570	
830704		13374	0101	5.8	0.310	7.77	59.9	0.002	8.00	1.660	6
830807	0940	13396	0101	6.8	0.190	14.00	83.6	0.027	7.00	1.180	6
830905	0955	13418	0101		0.180	10.30	70.9	0.003	7.00	1.150	6

MAXIMUM

0.30

6.8

0.310

14.00

83.6

0.027

9.00

1.660

ARITH MEAN

0.30

5.5

0.196

6.86

58.0

0.008

7.80

0.967

GEOM MEAN

5.5

0.180

5.60

55.1

0.002

7.76

0.812

MINIMUM

0.30

4.5

0.074

2.85

36.6

0.002

7.00

0.275

STD DEV (GEOM \*)

1.0

0.078

4.64

20.3

0.84

0.547

# SAMP IN STATISTICS

5

5

6

6

5

4

5

5

% SAMP (EXCLUDED)

5

6

6

5

33

*=INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
SAMPLE		WATER	NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR		
DATE	HOUR	TEMP	UNF.TOT.	FIL.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	RESIDUE	TURB'ITY
YYMMDD	LMT	DEG.C	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	PARTIC.	FTU
			AS NI	AS N	AS PB		PHENOL	AS P	AS P	MG/L	
830424	0800	3.0	0.002<	0.030	0.003<	6.26	0.6<T	0.0020<T	0.023	2.920	3.00
830515	0925	12.0	0.002<		0.003<	5.85	1.0		0.022	4.680	
830607	0940		0.002<	0.044	0.003<	6.28	0.6<T	0.0010<T	0.014	4.570	6.20
830704		23.0	0.002<	0.094	0.003<	6.18	2.2	0.2400	0.285	6.530	2.10
830807	0940	19.0	0.002<	0.076	0.003<	6.53	0.2<T	0.0230	0.078	5.380	3.00
830905	0955	16.0	0.002	0.020	0.003<	6.55	2.0	0.0105		2.640	1.70

MAXIMUM

23.0

0.002

0.094

6.55

2.2

0.2400

0.285

6.530

6.20

ARITH MEAN

14.6

0.002

0.053

6.27

1.1&lt;A

0.0553&lt;A

0.083

4.453

3.20

GEOM MEAN

12.0

0.045

6.27

0.8&lt;A

0.0103&lt;A

0.043

4.238

2.88

MINIMUM

3.0

0.002

0.020

5.85

0.2

0.0010

0.014

2.640

1.70

STD DEV (GEOM \*)

7.6

0.031

0.26

0.8&lt;A

0.1036&lt;A

0.115

0.115

1.475

1.77

# SAMP IN STATISTICS

5

1

5

6

6

5

5

6

5

% SAMP (EXCLUDED)

83

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

43

B.O.W./ SITE: DUCHESNAY RIVER  
SAMPLE POINT: HWY.17 UPSTREAM OF NORDFIBRE  
STATION TYPE: RIVER FLOW GAUGE FED 02DD008

STATION ID: 03-0133-012-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
002  
5430

LAT: 46 20 01.71 LONG: 079 30 32.79 U T M: 17 0614750.0 5131999.0 4 REGION: 05 DISTANCE: 114.743

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830424	0800	13304	0.012
830515	0925	13330	0.004
830607	0940	13352	0.015
830704		13374	0.006
830807	0940	13396	0.005
830905	0955	13418	0.007

MAXIMUM 0.015  
ARITH MEAN 0.008  
GEOM MEAN 0.007  
MINIMUM 0.004  
STD DEV (GEOM \*) 0.004  
# SAMP IN STATISTICS 6  
% SAMP (EXCLUDED)

## 44

STORET CODE: 02  
002  
5430

**DISTANCE: 114.260**

* = INTERIM		TEST-NAME:	NNTKUR	PH	PPUT	RSP	SSO4UR	TURB
			K'DAHL N					
			TOTAL		PHOSPHOR		SULPHATE	
SAMPLE			UNF. REAC		UNF. TOT.	RESIDUE	UNF. REAC	
DATE	HOUR	SAMPLE	MG/L		MG/L	PARTIC.	MG/L	TURB'ITY
YYMMDD	LMT	NUMBER	AS N	PH	AS P	MG/L	AS S04	FTU
830424	1045	13308	0.500	7.12	0.083	39.100	8.10	14.00
830515	0910	13329	0.530	6.53	0.023	5.700		
830607	0920	13351	0.450	6.63	0.018	5.970	7.90	2.90
830704	0910	13373	1.450	6.43	0.090	21.300	6.96	8.00
830807	0925	13395	0.850	6.55	0.075	6.820	9.06	3.20
830905	0930	13417	0.810	6.99	0.045	4.030	9.73	3.30
MAXIMUM			1.450	7.12	0.090	39.100	9.73	14.00
ARITH MEAN			0.765	6.71	0.056	13.820	8.35	6.28
GEOM MEAN			0.701	6.70	0.047	9.592	8.29	5.09
MINIMUM			0.450	6.43	0.018	4.030	6.96	2.90
STD DEV (GEOM *)			0.375	0.28	0.031	13.910	1.07	4.80
# SAMP IN STATISTICS			6	6	6	6	5	5
% SAMP (EXCLUDED)								

## 1983 WATER QUALITY DATA REGION 5

45

B.O.W./ SITE: LA VASE RIVER  
 SAMPLE POINT: UPSTREAM FROM DUPONT NORTH BAY  
 STATION TYPE: RIVER FLOW GAUGE MOE 02DD101

STATION ID: 03-0133-014-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 16 18.46 LONG: 079 22 56.31 U T M: 17 0624650.0 5125300.0 4 REGION: 05 DISTANCE: 121.180

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
				ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
SAMPLE DATE	HOUR	SAMPLE	PROJECT	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM
			CODE	AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	COND.
830320	1220	13224	0101		0.950			0.008	9.00		6
830424	1640	13320	0101		0.640	6.74	71.2	0.001	10.00	0.840	6
830515	1725	13343	0101	18.1	0.011	6.04	73.3	0.002	9.00	0.920	6
830607	1710	13365	0101	21.6	0.540	6.89	76.3	0.005		0.930	
830704	1630	13387	0101	46.3	0.330	9.51	123.0	0.003	9.00	1.950	6
830807	1710	13409	0101	36.5	4.600	26.00	173.0	0.044	8.00	8.800	6
830905	1730	13431	0101	42.0	0.160	29.40	207.0	0.001	7.00	0.905	6
831006	1620	13447	0101	17.7	0.680	4.24	78.6	0.005	8.60	1.325	6
831103	1430	13463	0101	20.2	0.660	8.20	92.3	0.002	9.00	1.100	6
831201	1400	13479	0101	21.6		5.68	74.5		10.00	0.750	6
		MAXIMUM	0.30	46.3	4.600	29.40	207.0	0.044	10.00	8.800	
		ARITH MEAN	0.30	28.0	0.952	11.41	107.7	0.008	8.84	1.947	
		GEOM MEAN		26.1	0.418	9.04	99.4	0.004	8.80	1.320	
		MINIMUM	0.30	17.7	0.011	4.24	71.2	0.001	7.00	0.750	
		STD DEV (GEOM *)		11.6	1.398	9.39	50.1	0.014	0.93	2.596	
		# SAMP IN STATISTICS	9	8	9	9	9	9	9	9	
		% SAMP (EXCLUDED)									

*=INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
			NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR		
SAMPLE DATE	HOUR	SAMPLE	UNF.TOT.	TOTAL	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	RESIDUE	TURB
YYMMDD	LMT	NUMBER	MG/L	MG/L	MG/L		UG/L	MG/L	MG/L	PARTIC.	ITY
			AS NI	AS N	AS PB	PH	PHENOL	AS P	AS P	MG/L	FTU
830320	1220	13224	2.0	0.006	0.006	0.012	1.4	0.015	0.067		
830424	1640	13320	7.0	0.002<	0.012	0.003<	0.6<T	0.0000	0.049	10.200	10.00
830515	1725	13343	16.0	0.002<	0.004	0.003<	1.2	0.0845	0.111	9.930	12.00
830607	1710	13365		0.002	0.012	0.003<	0.4<T	0.0110	0.048	4.720	8.40
830704	1630	13387	24.0	0.005	0.098	0.003<	7.11	0.1250	0.044	11.400	7.50
830807	1710	13409	17.0	0.007	0.008	0.024	0.4<T	0.0685	0.285	137.000	117.00
830905	1730	13431	18.0	0.002<	0.156	0.003<	0.2<W	0.2400	0.315	6.860	6.00
831006	1620	13447	7.0	0.003	0.080	0.003<	6.65	0.0130	0.057	8.540	12.30
831103	1430	13463	8.0	0.002<	0.024	0.003<	7.18	0.0160	0.049	10.700	13.70
831201	1400	13479			0.022		7.18	0.0050	0.031	4.850	7.70
		MAXIMUM	24.0	0.007	0.156	0.024	7.20	0.2400	0.315	137.000	117.00
		ARITH MEAN	12.4	0.005	0.042	0.018	6.99	0.058	0.106	22.689	21.62
		GEOM MEAN	9.9		0.021		6.99	0.5<A	0.075	10.954	12.39
		MINIMUM	2.0	0.002	0.004	0.012	6.57	0.0000	0.031	4.720	6.00
		STD DEV (GEOM *)	7.4		0.052		0.24	0.5<A	0.105	42.937	35.86
		# SAMP IN STATISTICS	8	5	10	2	9	10	10	9	9
		% SAMP (EXCLUDED)		44		77					

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

46

B.O.W./ SITE: LA VASE RIVER  
SAMPLE POINT: UPSTREAM FROM DUPONT NORTH BAY  
STATION TYPE: RIVER FLOW GAUGE MOE 02DD101

STATION ID: 03-0133-014-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
002  
5430

LAT: 46 16 18.46 LONG: 079 22 56.31 U T M: 17 0624650.0 5125300.0 4 REGION: 05 DISTANCE: 121.180

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830320	1220	13224	0.015
830424	1640	13320	0.006
830515	1725	13343	0.002
830607	1710	13365	0.010
830704	1630	13387	0.009
830807	1710	13409	0.069
830905	1730	13431	0.002
831006	1620	13447	0.017
831103	1430	13463	0.011

MAXIMUM 0.069  
ARITH MEAN 0.016  
GEOM MEAN 0.009  
MINIMUM 0.002  
STD DEV (GEOM \*) 0.021  
# SAMP IN STATISTICS 9  
% SAMP (EXCLUDED)

## 1983 WATER QUALITY DATA REGION 5

47

B.O.W./ SITE: LA VASE RIVER  
 SAMPLE POINT: DOWNSTREAM FROM DUPONT NORTH BAY  
 STATION TYPE: RIVER

STATION ID: 03-0133-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 15 29.28 LONG: 079 24 10.15 U T M: 17 0623100.0 5123750.0 4 REGION: 05 DISTANCE: 120.698

*INTERIM TEST-NAME:		FMSADP	FGPROJ	CLIDUR	COND25	DO	FWSTRC	FWTEMP	NNHTFR	NNOTFR	NNTKUR	
									NH3-N	NO2+NO3N	K'DAHL N	
									TOTAL	TOTAL	TOTAL	
SAMPLE	DATE	SAMPLE	SAMPLE	PROJECT	CHLORIDE	CONDUCT.	DISOLVED	WATER	FIL.REAC	FIL.REAC	UNF.REAC	
DATE	DATE	DATE	DATE	SUB-PROJ	UNF.REAC	25C	OXYGEN	TEMP	MG/L	MG/L	MG/L	
YYMMDD	YYMMDD	YYMMDD	YYMMDD	CODE	MG/L	UMHO/CM	MG/L	DEG.C	AS N	AS N	AS N	
LMT	LMT	LMT	LMT		AS CL-	AT 25 C	AS O	COND.				
830320 0910	13218	0.30	0101				9.00	6	2.0	0.006	0.497	0.620
830424 1250	13314	0.30	0101		11.70	93.2	10.00	6	7.0	0.008	0.545	0.540
830515 1340	13337	0.30	0101		11.40	92.5	9.00	6	16.0	0.004<T	0.735	0.830
830607 1315	13359		0101		11.70	93.9				0.008	0.600	0.780
830704 1310	13381	0.30	0101		16.70	144.0	8.00		24.0	0.004<T	1.900	0.860
830807 1340	13403	0.30	0101		16.30	155.0	9.00	6	19.0	0.192	2.870	0.950
830905 1350	13425	0.30	0101		19.90	165.0	7.00	6	18.0	0.078	1.910	0.840
831006 1250	13442	0.30	0101		6.31	78.8	8.00	6	7.0	0.146	0.225	1.180
831103 1145	13458	0.30	0101		13.40	114.1	8.00	6	7.0	0.158	0.605	0.850
831201 1120	13474	0.30	0101		8.84	89.7	10.00	6		0.168	0.355	0.800
MAXIMUM		0.30			19.90	165.0	10.00		24.0	0.192	2.870	1.180
ARITH MEAN		0.30			12.92	114.0	8.67		12.5	0.077<A	1.024	0.825
GEOM MEAN					12.27	110.2	8.61		9.9	0.029<A	0.755	0.809
MINIMUM		0.30			6.31	78.8	7.00		2.0	0.004	0.225	0.540
STD DEV (GEOM *)					4.19	32.2	1.00		7.7	0.080<A	0.881	0.173
# SAMP IN STATISTICS		9			9	9	9		8	10	10	10
% SAMP (EXCLUDED)												

*INTERIM TEST-NAME:		PH	PP04FR	PPUT	RSP	TURB
			PO4	PHOSPHOR		
			FIL.REAC	UNF.TOT.	RESIDUE	
SAMPLE	DATE	SAMPLE	MG/L	MG/L	PARTIC.	TURB'ITY
DATE	DATE	DATE	MG/L	MG/L	MG/L	FTU
YYMMDD	YYMMDD	YYMMDD	AS P	AS P		
LMT	LMT	LMT				
830320 0910	13218		0.009	0.067		
830424 1250	13314	7.15	0.0075	0.043	10.900	12.00
830515 1340	13337	6.78	0.0075	0.046	7.540	9.50
830607 1315	13359	7.06	0.0090	0.037	7.410	6.50
830704 1310	13381	7.11	0.0070	0.048	5.310	2.80
830807 1340	13403	7.28	0.0005<T	0.021	5.080	1.60
830905 1350	13425	7.04	0.0010<T	0.023	2.470	2.00
831006 1250	13442	6.73	0.0110	0.067	8.540	8.70
831103 1145	13458	7.10	0.2100	0.325	2.000	11.70
831201 1120	13474	7.14	0.0040	0.028	4.680	7.70
MAXIMUM		7.28	0.2100	0.325	10.900	12.00
ARITH MEAN		7.04	0.027 <A	0.070	5.992	6.94
GEOM MEAN		7.04	0.007 <A	0.048	5.290	5.58
MINIMUM		6.73	0.0005	0.021	2.000	1.60
STD DEV (GEOM *)		0.18	0.065 <A	0.091	2.880	4.01
# SAMP IN STATISTICS		9	10	10	9	9
% SAMP (EXCLUDED)						



## 1983 WATER QUALITY DATA REGION 5

48

B.C.W./ SITE: STURGEON RIVER  
 SAMPLE POINT: FIRST BRIDGE UPSTREAM FROM CRYSTAL FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02DC003

STATION ID: 03-0133-017-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 27 46.45 LONG: 079 54 03.04

U T M: 17 0584400.0 5145850.0 4

REGION: 05

DISTANCE: 140.492

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5	CLIDUR	COD	COND25	DO	DOC	FHFLOW	FHSTRC
				5 DAY					CARBON		
SAMPLE	DATE	SAMPLE	SAMPLE	TOT.DEM.	CHLORIDE	CHEM. OX	CONDUCT.	DISOLVED	DISOLVED	STREAM	
DATE	TIME	NUMBER	DEPTH	MG/L	UNF.REAC	DEMAND	25C	OXYGEN	ORGANIC	FLOW	
YYMMDD	LMT		M	AS O	MG/L	MG/L	UMHO/CH	MG/L	MG/L	M3	STREAM
				AS O	AS CL-	AS O	AT 25 C	AS O	AS C	/S	COND.
830411	0830	13300	0.30	0.83	1.05		61.6	10.00	4.2	168.000	6
830424	0845	13305	0.30	0.03<T	0.75	15.4	50.3	8.00	4.3	131.000	6
830515	1010	13331	0.30	0.63	0.81	18.2		9.00	4.8	220.000	6
830607	1015	13353		1.17	0.64	12.6	52.8		5.2	259.000	
830704	1000	13375	0.30	0.61	0.58	13.9	65.7	8.00	4.0	54.200	6
830807	1030	13397	0.30	0.39<T	0.83	13.5	74.3	8.00	3.6	33.900	6
830905	1030	13419	0.30	0.92	0.90	11.6	77.2	8.00	3.7	21.100	6
831006	0900	13436	0.30	0.54	0.83	15.7	68.3	10.00	5.1	49.900	6
831103	0845	13452	0.30		0.99	9.4	60.8	9.00		43.100	6
831201	0810	13468	0.30		1.19	14.5	64.3	8.00		76.500	6
MAXIMUM		0.30		1.17	1.19	18.2	77.2	10.00	5.2	259.000	
ARITH MEAN		0.30		0.64<A	0.86	13.9	63.9	8.67	4.4	105.670	
GEOM MEAN				0.46<A	0.84	13.6	63.4	8.63	4.3	77.679	
MINIMUM		0.30		0.03	0.58	9.4	50.3	8.00	3.6	21.100	
STD DEV (GEOM *)				0.35<A	0.18	2.5	8.9	0.87	0.6	84.286	
# SAMP IN STATISTICS		9		8	10	9	9	9	8	10	
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		FWTEMP	NNOTFR	NNTKUR	PH	PPUT	RSP	SS04UR	TURB	
				K'DAHL N						
			NO2+NO3N	TOTAL		PHOSPHOR		SULPHATE		
SAMPLE	DATE	SAMPLE	FIL.REAC	UNF.REAC		UNF.TOT.	RESIDUE	UNF.REAC		
DATE	TIME	NUMBER	MG/L	MG/L		MG/L	PARTIC.	MG/L	TURB'ITY	
YYMMDD	LMT		AS N	AS N	PH	AS P	MG/L	AS S04	FTU	
830411	0830	13300	3.0	0.155	0.330	7.54	0.021	12.200	10.01	6.20
830424	0845	13305	4.0	0.085	0.270	7.09	0.013	4.560	8.15	2.20
830515	1010	13331	12.0		0.300	6.93	0.013	9.090		
830607	1015	13353		0.030	0.290	7.22	0.020	10.200	11.34	5.20
830704	1000	13375	23.0	0.030	0.310	7.29	0.008	2.410	11.90	0.90
830807	1030	13397	19.0	0.025	0.250	7.54	0.017	12.500	11.88	4.50
830905	1030	13419	17.0	0.005<T	0.450	7.10	0.012	3.610	12.77	1.40
831006	0900	13436	6.0	0.030	0.370	7.52	0.013	2.320	13.67	4.10
831103	0845	13452	6.0	0.055	0.270	6.89	0.014	4.270	12.13	3.00
831201	0810	13468		0.070	0.430	7.59	0.011	7.620	12.90	1.80

( C O N T D )



## 1983 WATER QUALITY DATA REGION 5

50

B.O.W./ SITE: CHIPPEWA CREEK  
 SAMPLE POINT: AT MOUTH AMELIA PARK NORTH BAY  
 STATION TYPE: RIVER FLOW GAUGE FED 02DD014

STATION ID: 03-0133-019-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 18 09.40 LONG: 079 27 47.55

U T M: 17 0618350.0 5128600.0 4

REGION: 05

DISTANCE: 215.163

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWFLOW
SAMPLE DATE	HOUR	SAMPLE DEPTH	PROJECT SUB-PROJ	ALK TOTAL	ALUMINUM UNF.TOT.	CHLORIDE UNF.REAC	CONDUCT. 25C	COPPER UNF.TOT.	DISOLVED OXYGEN	IRON UNF.TOT.	STREAM FLOW
YYMMDD	LMT	NUMBER	CODE	MG/L AS CAC03	MG/L AS AL	MG/L AS CL-	UMHO/CM AT 25 C	MG/L AS CU	MG/L AS O	MG/L AS FE	M3 /S
830320	0820	13216	0101		1.600			0.008	9.00		3.670
830424	1130	13310	0101		0.180	51.50	271.0	0.002	7.00	1.100	0.649
830515	0820	13326	0101	23.2	0.120	3.15		0.001<	10.00		0.608
830607	0830	13348	0101	34.2	0.260	69.50	323.0	0.008		1.880	0.451
830704	0755	13370	0101	44.6	0.140	55.00	313.0	0.006	9.00	1.460	0.181
830802	0730	13392	0101		0.110	53.10	305.0	0.005	9.00	1.200	0.162
830905	0750	13414	0101	48.3	0.050	57.10	312.0	0.003	7.00	0.990	0.096
831006	0800	13435	0101	28.5	0.550	39.69	221.0	0.170	10.00	1.775	1.910
831103	0800	13451	0101	36.7	0.170	52.60	284.0	0.005	11.00	1.450	0.364
831201	0730	13467	0101	34.5	0.140	69.60	353.0	0.004	10.00	1.275	0.410
MAXIMUM		0.30		48.3	1.600	69.60	353.0	0.170	11.00	1.880	3.670
ARITH MEAN		0.30		35.7	0.332	50.14	297.7	0.023	9.11	1.391	0.850
GEOM MEAN				34.8	0.198	40.18	295.3		9.01	1.361	0.470
MINIMUM		0.30		23.2	0.050	3.15	221.0	0.002	7.00	0.990	0.096
STD DEV (GEOM *)				8.7	0.466	19.87	39.6		1.36	0.314	1.118
# SAMP IN STATISTICS		9		7	10	9	8	9	9	8	10
% SAMP (EXCLUDED)								10			
*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP
SAMPLE DATE	HOUR	SAMPLE DEPTH	STREAM COND.	WATER TEMP	NICKEL UNF.TOT.	FIL.REAC	UNF.TOT.	PHENOLS UNF-REAC	PO4 FIL.REAC	PHOSPHOR UNF.TOT.	RESIDUE PARTIC.
YYMMDD	LMT	NUMBER	COND.	DEG.C	MG/L AS NI	MG/L AS N	MG/L AS PB	UG/L PHENOL	MG/L AS P	MG/L AS P	MG/L
830320	0820	13216	6	2.0	0.007	0.004<T	0.005		5.0	0.008	0.124
830424	1130	13310	6	3.0	0.002	0.008	0.003<	6.87	1.6	0.0040	0.043
830515	0820	13326	6	11.0	0.005		0.003<	7.03	0.8		0.165
830607	0830	13348			0.002	0.008	0.014	6.89	1.2	0.0090	0.072
830704	0755	13370	6	22.0	0.002<	0.002<T	0.003<	7.08	1.2	0.0185	0.052
830802	0730	13392	8	19.0	0.002<	0.004<T	0.003<	7.50	1.0	0.0050	0.035
830905	0750	13414	6	16.0	0.002<	0.004<T	0.003<	7.45	0.8	0.0040	0.020
831006	0800	13435	6	7.0	0.006	1.500	0.005	7.10	1.2	0.1140	0.240
831103	0800	13451	6	6.0	0.002<	0.730	0.004	7.00	1.4	0.0090	0.040
831201	0730	13467	4 6		0.002<	1.610	0.003<	7.45		0.0060	0.025
MAXIMUM				22.0	0.007	1.610	0.014	7.50	5.0	0.1140	0.240
ARITH MEAN				10.7	0.004	0.430<A	0.007	7.15	1.6	0.020	0.082
GEOM MEAN				8.1		0.029<A		7.15	1.3	0.010	0.059
MINIMUM				2.0	0.002	0.002	0.004	6.87	0.8	0.0040	0.020
STD DEV (GEOM *)				7.5		0.681<A		0.25	1.3	0.036	0.072
# SAMP IN STATISTICS				8	5	9	4	9	9	10	9
% SAMP (EXCLUDED)					50		60				

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

51

B.O.W./ SITE: CHIPPEWA CREEK  
SAMPLE POINT: AT MOUTH AMELIA PARK NORTH BAY  
STATION TYPE: RIVER FLOW GAUGE FED 02DD014

STATION ID: 03-0133-019-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
002  
5430

LAT: 46 18 09.40 LONG: 079 27 47.55

U T M: 17 0618350.0 5128600.0 4 REGION: 05

DISTANCE: 215.163

*=INTERIM		TEST-NAME:	TURB	ZNUT
SAMPLE				ZINC
DATE	HR	SAMPLE	TURB'ITY	UNF.TOT.
YYMMDD	LMT	NUMBER	FTU	MG/L
				AS ZN
830320	0820	13216		0.025
830424	1130	13310	3.60	0.016
830515	0820	13326		0.011
830607	0830	13348	7.70	0.031
830704	0755	13370	4.00	0.012
830802	0730	13392	5.50	0.008
830905	0750	13414	3.10	0.006
831006	0800	13435	14.70	0.031
831103	0800	13451	6.40	0.023
831201	0730	13467	5.10	0.020
		MAXIMUM	14.70	0.031
		ARITH MEAN	6.26	0.018
		GEOM MEAN	5.56	0.016
		MINIMUM	3.10	0.006
		STD DEV (GEOM *)	3.73	0.009
# SAMP IN STATISTICS		8	10	
% SAMP (EXCLUDED)				

## 1983 WATER QUALITY DATA REGION 5

52

B.O.W./ SITE: GENESEE CREEK  
 SAMPLE POINT: POWASSAN WATER WORKS  
 STATION TYPE: RIVER FLOW GAUGE FED 02DD102

STATION ID: 03-0133-020-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 04 55.11 LONG: 079 21 24.57

U T M: 17 0627050.0 5104250.0 4

REGION: 05

DISTANCE: 147.251

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	CUUT	DO	FCH FECAL COLIFORM	FWSTRC	FWTEMP	NIUT	NNOTFR	NNTKUR	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	COPPER UNF.TOT. MG/L AS CU	DISOLVED OXYGEN MG/L AS O	STREAM COND.	WATER TEMP DEG.C	NICKEL UNF.TOT. MG/L AS NI	NO2+NO3N FIL.REAC MG/L AS N	K'DAHL N TOTAL UNF.REAC MG/L AS N	
830320	1130	13222	0.30	0101	0.004	10.00	10<=>	6	12.0	0.002<	0.498	0.640
		MAXIMUM	0.30		0.004	10.00	10	12.0		0.498	0.640	
		ARITH MEAN	0.30		0.004	10.00	10	12.0		0.498	0.640	
		GEOM MEAN										
		MINIMUM	0.30		0.004	10.00	10	12.0		0.498	0.640	
		STD DEV (GEOM *)										
		# SAMP IN STATISTICS	1		1	1	1	1		1	1	
		% SAMP (EXCLUDED)										
*=INTERIM TEST-NAME:		PBUT	PPUT	TCH COLIFORM	TCHFBK COLIFORM	ZNUT						
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	LEAD UNF.TOT. MG/L AS PB	PHOSPHOR UNF.TOT. MG/L AS P	TOTAL MF CNT /100ML	TOTAL MF BCKGRD CNT /100ML	ZINC UNF.TOT. MG/L AS ZN					
830320	1130	13222	0.003<	0.170	520	500	0.019					
		MAXIMUM		0.170	520	500	0.019					
		ARITH MEAN		0.170	520	500	0.019					
		GEOM MEAN										
		MINIMUM		0.170	520	500	0.019					
		STD DEV (GEOM *)										
		# SAMP IN STATISTICS		1	1	1	1					
		% SAMP (EXCLUDED)										

## 1983 WATER QUALITY DATA REGION 5

53

B.O.W./ SITE: GENESEE CREEK  
 SAMPLE POINT: AT HIGHWAY 11 POWASSAN  
 STATION TYPE: RIVER

STATION ID: 03-0133-022-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 05 02.25 LONG: 079 22 10.92

U T M: 17 0626050.0 5104450.0 4

REGION: 05

DISTANCE: 145.642

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FCMF	FEUT	FWSTRC
				ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	IRON	
SAMPLE		SAMPLE	PROJECT	TOTAL	UNF.REAC	25C	UNF.TOT.	OXYGEN	COLIFORM	UNF.TOT.	
DATE	HOUR	NUMBER	SUB-PROJ	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MF	MG/L	STREAM
YYMMDD	LMT		CODE	AS CAC03	AS CL-	AT 25 C	AS CU	AS O	CNT	AS FE	COND.
									/100ML		
830320	1150	13223	0101				0.003	10.00	90<=>		6
830424	1600	13319	0101	12.9		62.1	0.003	9.00	10<	0.455	6
830515	1640	13342	0101	11.7	4.21	60.1	0.003	9.00	20<=>	0.695	6
830607	1630	13364	0101	15.4	1.57	51.2	0.002		50<=>	0.535	
830704	1600	13386	0101	25.3	2.92	80.4	0.002	8.00	1430	1.275	6
830807	1640	13408	0101	27.2	3.64	84.8	0.005	9.00	180<=>	0.925	6
830905	1700	13430	0101	31.9	5.29	99.2	0.002	9.00	520	0.915	6
831006	1540	13446	0101	20.5	5.19	90.5	0.002	9.00		1.100	6
831103	1355	13462	0101	19.8	5.93	85.7	0.001	8.00		0.755	6
831201	1330	13478	0101	12.1	5.69	69.1		9.00	10<	0.545	6
		MAXIMUM	0.30	31.9	5.93	99.2	0.005	10.00	1430	1.275	
		ARITH MEAN	0.30	19.6	4.30	75.9	0.003	8.89	382	0.800	
		GEOM MEAN		18.5	4.00	74.3	0.002	8.87		0.758	
		MINIMUM	0.30	11.7	1.57	51.2	0.001	8.00	20	0.455	
		STD DEV (GEOM *)		7.3	1.52	16.0	0.001	0.60		0.277	
		# SAMP IN STATISTICS	9	9	8	9	9	9	6	9	
		% SAMP (EXCLUDED)							25		
*INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP
			NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		P04	PHOSPHOR	
SAMPLE		WATER	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	RESIDUE
DATE	HOUR	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	PARTIC.
YYMMDD	LMT	DEG.C	AS NI	AS N	AS N	AS N	AS PB	PH	AS P	AS P	MG/L
830320	1150	13223	2.0	0.003	0.004<T	0.488	0.600	0.003<	0.016	0.113	
830424	1600	13319	8.0	0.002<		0.130	0.360	0.003<		0.028	
830515	1640	13342	17.0	0.002<	0.006	0.125	0.550	0.003<	6.87	0.029	9.200
830607	1630	13364		0.002<	0.042	0.060	0.420	0.003<	7.16	0.0045	1.180
830704	1600	13386	25.0	0.002<	0.094	0.195	0.800	0.003<	7.20	0.0210	10.400
830807	1640	13408	18.0	0.002<	0.066	0.135	0.640	0.003<	7.18	0.0090	10.400
830905	1700	13430	19.0	0.002<	0.100	0.080	0.750	0.003<	7.61	0.0070	6.550
831006	1540	13446	8.0	0.002<	0.066	0.120	0.920	0.003<	7.00	0.0290	10.200
831103	1355	13462	20.0	0.002<	0.034	0.105	0.370	0.003<	7.16	0.1700	6.040
831201	1330	13478			0.036	0.120	0.430		7.08	0.0040	5.570

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

54

B.O.W./ SITE: GENESEE CREEK  
 SAMPLE POINT: AT HIGHWAY 11 POWASSAN  
 STATION TYPE: RIVER

STATION ID: 03-0133-022-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 05 02.25 LONG: 079 22 10.92

U T M: 17 0626050.0 5104450.0 4

REGION: 05

DISTANCE: 145.642

*INTERIM TEST-NAME:		FNTMP	NIUT	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N TOTAL	NNTKUR K'DAHL N TOTAL	PBUT LEAD	PH	PP04FR P04 PHOSPHOR	PPUT UNF.TOT. MG/L	RSP RESIDUE PARTIC. MG/L	
SAMPLE DATE YYMMDD	HOUR LHT	SAMPLE NUMBER	WATER TEMP DEG.C	UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L
MAXIMUM		25.0	0.003	0.100	0.488	0.920		7.61	0.1700	0.270	10.400	
ARITH MEAN		14.6	0.003	0.050<A	0.156	0.584		7.18	0.030	0.074	7.442	
GEOM MEAN		11.8		0.033<A	0.131	0.556		7.17	0.013	0.054	6.349	
MINIMUM		2.0	0.003	0.004	0.060	0.360		6.87	0.0040	0.025	1.180	
STD DEV (GEOM *)		7.7		0.034<A	0.122	0.194		0.21	0.053	0.075	3.244	
# SAMP IN STATISTICS		8	1	9	10	10		9	9	10	8	
% SAMP (EXCLUDED)			88									

*INTERIM TEST-NAME:		SS04UR	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOUR LHT	SAMPLE NUMBER	SULPHATE UNF.REAC MG/L AS S04	MF CNT /100ML	BCKGRD CNT /100ML	UNF.TOT. MG/L AS ZN
830320	1150	13223		700	780	0.016
830424	1600	13319	8.94	100<=>	220	0.017
830515	1640	13342	8.73	270<=>	4000	0.015
830607	1630	13364	8.08	1700	5400	0.007
830704	1600	13386	7.77	20000<=>	240E+05>	0.004
830807	1640	13408	7.99	2000<=>	500000	0.009
830905	1700	13430	8.81	3000<=>	340000	0.007
831006	1540	13446	13.15			0.008
831103	1355	13462	10.96			0.004
831201	1330	13478		420	1820	4.20
MAXIMUM		13.15	20000	500000	8.50	0.017
ARITH MEAN		9.30	3524	121746	5.57	0.010
GEOM MEAN		9.16	1062		5.30	0.008
MINIMUM		7.77	100	220	3.10	0.004
STD DEV (GEOM *)		1.84	5*		1.83	0.005
# SAMP IN STATISTICS		8	8	7	9	9
% SAMP (EXCLUDED)				12		

## 1983 WATER QUALITY DATA REGION 5

55

B.O.W./ SITE: LA VASE RIVER  
 SAMPLE POINT: AT MOUTH NORTH BAY  
 STATION TYPE: RIVER FLOW GAUGE FED 02DD013

STATION ID: 03-0133-024-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 14 36.78 LONG: 079 25 19.39

U T M: 17 0621650.0 5122100.0 4

REGION: 05

DISTANCE: 0.322

*=INTERIM TEST-NAME:			FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FCMF FECAL COLIFORM	FEUT	FWFLOW	FWSTRC
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	DISOLVED OXYGEN MG/L AS O	CMF MF CNT /100ML	IRON UNF.TOT. MG/L AS FE	STREAM FLOW M3 /S	STREAM COND.
830320	0850	13217	0.30	0101	9.8	55.7	0.005	9.00	110	1.425	11.800	6
830424	1230	13313	0.30	0101	16.2	93.7	0.001	10.00	10<	1.070	1.130	6
830515	1320	13336	0.30	0101	16.3		0.001	9.00	10<=>		0.953	6
830607	1300	13358		0101	21.0	94.1	0.005		40<=>	1.000	0.822	
830704	1250	13380	0.30	0101	27.7	143.0	0.007	8.00	20<	0.900	0.102	6
830807	1325	13402	0.30	0101	25.7	151.0	0.004	9.00	260	0.335	0.061	6
830905	1330	13424	0.30	0101	31.8	164.0	0.005	7.00	20<	0.375	0.073	6
831006	1225	13441	0.30	0101	15.6	80.2	0.006	8.00		1.325	4.340	6
831103	1120	13457	0.30	0101	20.6	113.5	0.003	8.00	20<=>	1.000	0.419	6
831201	1100	13473	0.30	0101	18.8	89.5		10.00	10<=>	0.860	1.110	6
MAXIMUM			0.30		31.8	164.0	0.007	10.00	260	1.425	11.800	
ARITH MEAN			0.30		20.3	109.4	0.004	8.67	75	0.921	2.081	
GEOM MEAN					19.4	103.9	0.003	8.61		0.835	0.628	
MINIMUM			0.30		9.8	55.7	0.001	7.00	10	0.335	0.061	
STD DEV (GEOM *)					6.5	36.2	0.002	1.00		0.370	3.637	
# SAMP IN STATISTICS			9		10	9	9	9	6	9	10	
% SAMP (EXCLUDED)									33			
*=INTERIM TEST-NAME:			FWTEMP	NIUT	NNOTFR	NNTKUR K'DAHL N TOTAL	PBUT	PH	PPUT	SS04UR	TCHF COLIFORM TOTAL	TCHFBK COLIFORM TOTAL MF
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	WATER TEMP. DEG.C	NICKEL UNF.TOT. MG/L AS NI	NO2+NO3N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PH	PHOSPHOR UNF.TOT. MG/L AS P	SULPHATE UNF.REAC MG/L AS SO4	CNT /100ML	BCKGRD CNT /100ML
830320	0850	13217	2.0	0.002<	0.471	0.420	0.003	7.05	0.057	4.45	1500	8400
830424	1230	13313	7.0	0.002<	0.575	0.570	0.003<	7.19	0.040	7.06	250	1400
830515	1320	13336	16.0	0.002<		0.720	0.003<	7.01	0.035		260<=>	4000
830607	1300	13358		0.002	0.670	0.790	0.003<	6.94	0.042	6.41	4500	14500
830704	1250	13380	24.0	0.002<	1.930	0.900	0.003<	6.94	0.049	8.55	1000<	1100000
830807	1325	13402	19.0	0.002<	2.850	1.070	0.003<	7.01	0.026	10.00	4000<=>	380000
830905	1330	13424	18.0	0.002<	1.950	0.900	0.003<	7.12	0.026	10.66	480<=>	480000
831006	1225	13441	7.0	0.002<	0.215	1.680	0.003<	6.43	0.080	9.74		
831103	1120	13457	7.0	0.002<	0.605	0.830	0.003<	7.28	0.350	9.88	380	4100
831201	1100	13473			0.355	0.750		6.85	0.027	9.11	500<=>	6400

(CONTD)



## 1983 WATER QUALITY DATA REGION 5

56

B.O.W./ SITE: LA VASE RIVER  
 SAMPLE POINT: AT MOUTH NORTH BAY  
 STATION TYPE: RIVER FLOW GAUGE FED 02DD013

STATION ID: 03-0133-024-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 14 36.78 LONG: 079 25 19.39

U T M: 17 0621650.0 5122100.0 4

REGION: 05

DISTANCE: 0.322

*INTERIM TEST-NAME:		FWTEMP	NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	SSO4UR	TCHF	TCHFBK
			NICKEL	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR	SULPHATE	COLIFORM	COLIFORM
			UNF.TOT.	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.	UNF.REAC	TOTAL	TOTAL MF
SAMPLE		WATER	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	MF	BCKGRD
DATE	HOUR	TEMP	AS NI	AS N	AS N	AS PB	PH	AS P	AS SO4	CNT	CNT
YYMMDD	LMT	DEG.C								/100ML	/100ML
MAXIMUM		24.0	0.002	2.850	1.680	0.003	7.28	0.350	10.66	4500	1100000
ARITH MEAN		12.5	0.002	1.069	0.863	0.003	6.98	0.073	8.43	1484	189850
GEOM MEAN		9.9		0.765	0.811		6.98	0.049	8.16		
MINIMUM		2.0	0.002	0.215	0.420	0.003	6.43	0.026	4.45	250	1400
STD DEV (GEOM *)		7.7		0.929	0.339		0.23	0.099	2.05		
# SAMP IN STATISTICS		8	1	9	10	1	10	10	9	8	8
% SAMP (EXCLUDED)			88			88				11	11

*INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
			UNF.TOT.
SAMPLE			MG/L
DATE	HOUR	TURB'ITY	AS ZN
YYMMDD	LMT	FTU	
830320	0850	13217	22.00
830424	1230	13313	12.70
830515	1320	13336	0.002<
830607	1300	13358	0.007
830704	1250	13380	0.001<
830807	1325	13402	0.012
830905	1330	13424	0.012
831006	1225	13441	0.006
831103	1120	13457	0.005
831201	1100	13473	0.024
MAXIMUM		22.00	0.024
ARITH MEAN		8.56	0.010
GEOM MEAN		6.32	
MINIMUM		1.35	0.005
STD DEV (GEOM *)		6.37	
# SAMP IN STATISTICS		9	7
% SAMP (EXCLUDED)			22

## 57

STORET CODE: 02  
002  
5430

DISTANCE: 220.152

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

58

B.D.W./ SITE: CHIPPEWA CREEK  
 SAMPLE POINT: AT GOLF CLUB ROAD NORTH BAY  
 STATION TYPE: RIVER

STATION ID: 03-0133-025-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 20 41.05 LONG: 079 27 01.19

U T M: 17 0619250.0 5133300.0 4

REGION: 05

DISTANCE: 220.152

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PHNOL	PP04FR
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	NICKEL UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PH	PHENOLS UNF-REAC UG/L PHENOL	P04 FIL.REAC MG/L AS P
MAXIMUM			22.0	0.003	1.150	0.105	0.460	0.003	7.53	3.6	0.0210
ARITH MEAN			10.2	0.003	0.267<A	0.105	0.460	0.003	7.04	1.4<A	0.005 <A
GEOM MEAN			7.2		0.032<A				7.03	0.9<A	0.002 <A
MINIMUM			1.0	0.002	0.002	0.105	0.460	0.003	6.19	0.2	0.0010
STD DEV (GEOM *)			7.6		0.397<A				0.36	1.1<A	0.007 <A
# SAMP IN STATISTICS			9	3	9	1	1	1	11	9	9
% SAMP (EXCLUDED)				70				90			
*INTERIM TEST-NAME:		PPUT	RSP	SS04UR	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF	TURB	ZNUT			
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	SULPHATE UNF.REAC MG/L AS SO4	HF CNT /100ML	BCKGRD CNT /100ML	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN			
830320 0800	13215	0.055			1600	2200	10.40	0.018			
830424 0745	13303	0.038	11.400		700	3800	3.50	0.012			
1210	13312	0.033		9.96	290	1800	3.30				
830515 1210	13334	0.156	7.400		2100	3200		0.001<			
830607 1200	13356	0.019	7.520		240	4500	2.90	0.009			
830704 1200	13378	0.050	4.020		100000<	290E+05	3.20	0.013			
830807 1210	13400	0.017	3.210		9000<=>	600000	3.30	0.011			
830905 1225	13422	0.010	2.320		96000<=>	2200000	3.00	0.018			
831006 1120	13439	0.075	14.300				6.40	0.033			
831103 1030	13455	0.006	4.330		100<=>	300<=>	2.30	0.014			
831201 1005	13471	0.012	2.090		460	900	2.40	0.021			
MAXIMUM		0.156	14.300	9.96	96000	290E+05	10.40	0.033			
ARITH MEAN		0.043	6.288	9.96	12277	3181670	4.07	0.017			
GEOM MEAN		0.028	5.129			17180	3.62				
MINIMUM		0.006	2.090	9.96	100	300	2.30	0.009			
STD DEV (GEOM *)		0.043	4.256			47*	2.50				
# SAMP IN STATISTICS		11	9	1	9	10	10	9			
% SAMP (EXCLUDED)					10			10			

## 1983 WATER QUALITY DATA REGION 5

59

B.O.W./ SITE: PARKS CREEK  
 SAMPLE POINT: AT LAKESHORE DRIVE NORTH BAY  
 STATION TYPE: RIVER

STATION ID: 03-0133-026-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 16 34.56 LONG: 079 26 42.45 U T M: 17 0619800.0 5125700.0 4 REGION: 05 DISTANCE: 0.161

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FCMF	FEUT	FWSTRC	FWTEHP
								FECAL			
								COLIFORM	IRON		
SAMPLE	DATE	DATE	SAMPLE	PROJECT	ALK	CONDUCT.	COPPER	DISOLVED	COLIFORM	IRON	WATER
DATE	DATE	DATE	DATE	DATE	TOTAL	25C	UNF.TOT.	OXYGEN	MF	UNF.TOT.	TEHP
YYMMDD	YYMMDD	YYMMDD	YYMMDD	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	CNT	MG/L	DEG.C
LMT	LMT	LMT	LMT	CODE	AS CAC03	AT 25 C	AS CU	AS O	/100HL	AS FE	COND.
830515	0800	13325	0.30	0101	36.0		0.001<	6.00	170		9.0
830607	0800	13347		0101	42.0	230.0	0.004		480	0.094	
830704	0730	13369	0.30	0101	52.8	240.0	0.004	6.00	220	3.040	24.0
830802	0700	13391	0.30	0101	46.0	192.0	0.007	6.00	100<=>	2.900	17.0
830905	0720	13413	0.30	0101	40.1	227.0	0.008	5.00	60<=>	1.350	15.0
MAXIMUM		0.30			52.8	240.0	0.008	6.00	480	3.040	24.0
ARITH MEAN		0.30			43.4	222.2	0.006	5.75	206	1.846	16.2
GEOM MEAN					43.0	221.5		5.73	161	1.028	15.3
MINIMUM		0.30			36.0	192.0	0.004	5.00	60	0.094	9.0
STD DEV (GEOM *)					6.4	20.9		0.50	2*	1.397	6.2
# SAMP IN STATISTICS		4			5	4	4	4	5	4	4
% SAMP (EXCLUDED)							20				

*INTERIM TEST-NAME:		NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TCMF	TCMFBK	TURB
									COLIFORM	COLIFORM	
									TOTAL	TOTAL	
SAMPLE	DATE	DATE	NICKEL	NO2+NO3N	K'DAHL N	LEAD	PHOSPHOR	SULPHATE	COLIFORM	COLIFORM	TURB
DATE	DATE	DATE	UNF.TOT.	FIL.REAC	TOTAL	UNF.TOT.	UNF.TOT.	UNF.REAC	MF	MF	ITY
YYMMDD	YYMMDD	YYMMDD	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	CNT	CNT	FTU
LMT	LMT	LMT	AS NI	AS N	AS N	AS PB	AS P	AS S04	/100ML	/100ML	
830515	0800	13325	0.006		0.560	0.003<	6.89	0.019	2900	9000	
830607	0800	13347	0.002	0.005<T	0.600	0.003<	7.13	0.027	8500<=>	56000	3.20
830704	0730	13369	0.003	0.140	1.550	0.005	7.01	0.070	6300<=>	130000	7.00
830802	0700	13391	0.006	0.770	1.450	0.011	7.32	0.100	4100<=>	90000	6.50
830905	0720	13413	0.002	0.100	0.670	0.008	7.20	0.044	1300	26000	7.20
MAXIMUM		0.006	0.770	1.550	0.011	7.32	0.100	20.78	8500	130000	7.20
ARITH MEAN		0.004	0.254<A	0.966	0.008	7.11	0.052	11.80	4620	62200	5.97
GEOM MEAN		0.003	0.086<A	0.873		7.11	0.044	10.88	3833	43363	5.69
MINIMUM		0.002	0.005	0.560	0.005	6.89	0.019	7.93	1300	9000	3.20
STD DEV (GEOM *)		0.002	0.349<A	0.490		0.17	0.033	6.03	2*	3*	1.87
# SAMP IN STATISTICS		5	4	5		3	5	5	4	5	4
% SAMP (EXCLUDED)						40					

( CONTD )

## 1983 WATER QUALITY DATA REGION 5

60

B.O.W./ SITE: PARKS CREEK  
SAMPLE POINT: AT LAKESHORE DRIVE NORTH BAY  
STATION TYPE: RIVER

STATION ID: 03-0133-026-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
002  
5430

LAT: 46 16 34.56 LONG: 079 26 42.45 U T M: 17 0619800.0 5125700.0 4 REGION: 05 DISTANCE: 0.161

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830515	0800	13325	0.020
830607	0800	13347	0.026
830704	0730	13369	0.019
830802	0700	13391	0.021
830905	0720	13413	0.028

MAXIMUM 0.028  
ARITH MEAN 0.023  
GEOM MEAN 0.023  
MINIMUM 0.019  
STD DEV (GEOM \*) 0.004  
# SAMP IN STATISTICS 5  
% SAMP (EXCLUDED)

## 1983 WATER QUALITY DATA REGION 5

61

B.O.W./ SITE: STURGEON RIVER  
 SAMPLE POINT: DOWNSTREAM FROM HIGHWAY NO 17  
 STATION TYPE: RIVER

STATION ID: 03-0133-028-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER MAIN CHANNEL

STORET CODE: 02  
 002  
 5430

LAT: 46 21 56.05 LONG: 079 56 02.39 U T M: 17 0582000.0 5135000.0 4 REGION: 05 DISTANCE: 123.755

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	BOD5 BOD 5 DAY TOT.DEM. MG/L AS O	CLIDUR CHLORIDE UNF.REAC MG/L AS CL-	COD CHEM. OX DEMAND MG/L AS O	COND25 CONDUCT. 25C UMHO/CM AT 25 C	DO DISOLVED OXYGEN MG/L AS O	DOC CARBON DISOLVED ORGANIC MG/L AS C	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE								
830411 1015	13302	0.30	0101	1.74	1.05		62.2	10.00	5.3	6	3.0
830424 1000	13307	0.30	0101	2.03	0.67	25.8	54.2	8.00	6.1	6	4.0
830515 1130	13333	0.30	0101	1.16	0.83	17.2		10.00	5.7	6	12.0
830607 1115	13355		0101	2.11	0.54	15.6	53.9		5.8		
830622 1200	11660	0.30	0101	2.35	0.65	27.4	66.3	8.30			21.5
830629	11667	0.30	0101	4.21	0.80	27.5	69.9	8.40			22.0
830704 1100	13377	0.30	0101	1.94	0.86	20.0	72.1	8.00	7.1	6	23.0
1215	11670	0.30	0101	1.69	0.82	17.0	69.1	8.30			22.5
830712 1130	11680	0.30	0101	3.23	0.69	28.1	74.8	8.30			21.4
830726 1115	11691	0.30	0101	4.13	0.75	43.6	83.2	7.60			23.5
830802 1130	11694	0.30	0101	1.53	0.70	19.0	74.8	7.60			23.5
830807 1125	13399	0.30	0101	1.97	1.08		81.1	8.00	8.7	6	19.0
830810 1500	11705	0.30	0101	5.44	0.82	39.2	81.5	7.70			23.0
830816 1208	11712	0.30	0101	5.79	0.90	43.9	82.3	8.10			22.0
830823 1200	11719	0.30	0101	3.40	0.89	41.8	81.6	7.80			21.5
830831 1200	11726	0.30	0101	4.49	0.92	41.6	84.9	7.90			22.5
830905 1130	13421	0.30	0101	1.00	1.04	16.8	83.6	8.00	5.1	6	17.0
831006 1020	13438	0.30	0101	2.38	0.93	52.1	74.2	10.00	9.4	6	6.0
831103 1000	13454	0.30	0101	5.20	1.03	39.8	72.2	9.00	13.3	6	6.0
831201 0935	13470	0.30	0101		1.20	16.5	65.1	8.00	6.5	6	
	MAXIMUM	0.30		5.79	1.20	52.1	84.9	10.00	13.3		23.5
	ARITH MEAN	0.30		2.94	0.86	29.6	73.0	8.37	7.3		17.4
	GEOM MEAN			2.58	0.84	27.3	72.4	8.34	7.0		14.8
	MINIMUM	0.30		1.00	0.54	15.6	53.9	7.60	5.1		3.0
	STD DEV (GEOM *)			1.51	0.17	12.1	9.5	0.79	2.5		7.5
	* SAMP IN STATISTICS	19		19	20	18	19	19	10		18
	% SAMP (EXCLUDED)										

(CONT'D)



## 1983 WATER QUALITY DATA REGION 5

63

B.O.W./ SITE: STURGEON RIVER  
 SAMPLE POINT: LAKE TEMAGAMI MNR DOCK  
 STATION TYPE: RIVER

STATION ID: 03-0133-029-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER

STORET CODE: 02  
 002  
 5430

LAT: 47 03 46.72 LONG: 079 47 37.52 U T M: 17 0591600.0 5212650.0 4 REGION: 05

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	NIUT
				ALK	CONDUCT.	COPPER	DISOLVED	IRON			NICKEL
SAMPLE		SAMPLE	PROJECT	TOTAL	25C	UNF.TOT.	OXYGEN	UNF.TOT.		WATER	UNF.TOT.
DATE	HR	DEPTH	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	TEMP	MG/L
YYMMDD	LMT	NUMBER	CODE	AS CAC03	AT 25 C	AS CU	AS O	AS FE	COND.	DEG.C	AS NI
830429	1935	13032	0101	15.1	74.4	0.017	9.00	0.025<T	4	3.0	0.002<
830525		13052	0101	25.6	120.0	0.002	10.00	0.040<T	8	12.0	0.002<
830626	1105	13072	0101	22.5	119.9	0.005	6.00	0.027<T	8	22.0	0.002<
830724	1420	13092	0101	24.4	121.3	0.006	7.00	0.070	8	22.0	0.002<
830828	1805	13112	0101	22.9	116.5	0.002	7.00	0.035<T	8	23.0	0.003
830920	1055	13132	0101	24.8	110.8	0.004	7.00	0.065	8	17.0	0.002<
831016	1055	13152	0101	27.8	129.0	0.002	8.00	0.030<T	8	10.0	0.002<
831113	1940	13172	0101	23.2	119.2	0.008	7.00	0.065	8	3.0	0.002<
831212	1035	13192	0101	22.1	122.6	0.002	9.00	0.025<T	4	1.0	0.003
MAXIMUM		0.30		27.8	129.0	0.017	10.00	0.070		23.0	0.003
ARITH MEAN		0.30		23.2	114.9	0.005	7.78	0.042<A		12.6	0.003
GEOM MEAN				22.9	113.6	0.004	7.68	0.039<A		8.4	
MINIMUM		0.30		15.1	74.4	0.002	6.00	0.025		1.0	0.003
STD DEV (GEOM *)				3.5	15.9	0.005	1.30	0.019<A		8.9	
# SAMP IN STATISTICS		9		9	9	9	9	9		9	2
% SAMP (EXCLUDED)											77

*=INTERIM TEST-NAME:		NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04FR	SS04UR	TURB	ZNUT
			K'DAHL N							
SAMPLE		NO2+NO3N	TOTAL	LEAD		PHOSPHOR	SULPHATE	SULPHATE		ZINC
DATE	HR	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.	FIL.REAC	UNF.REAC	TURB*ITY	UNF.TOT.
YYMMDD	LMT	MG/L	MG/L	MG/L	PH	MG/L	MG/L	MG/L	FTU	MG/L
		AS N	AS N	AS PB		AS P	AS S04	AS S04		AS ZN
830429	1935	13032	0.085	0.250	0.006	7.14	0.010	13.71	0.40	0.008
830525		13052	0.065	0.290	0.003<	7.26	0.007	18.88	0.50	0.002
830626	1105	13072	0.035	0.430	0.003<	7.42	0.020	26.39	0.90	0.004
830724	1420	13092	0.010<T	0.290		7.30	0.010	27.3	1.90	0.004
830828	1805	13112	0.005<T	0.240	0.003<	7.34	0.008	27.54	1.30	0.002
830920	1055	13132	0.010<T	0.280	0.003<	7.48	0.009	26.29	1.10	0.003
831016	1055	13152	0.005<T	0.260	0.003<	8.07	0.012	19.07	3.20	0.005
831113	1940	13172	0.015	0.230	0.003<	7.68	0.017	26.16	4.60	0.001
831212	1035	13192	0.035	0.250	0.003	7.57	0.014	20.03	0.86	0.014
MAXIMUM		0.085	0.430	0.006	8.07	0.020	27.3	27.54	4.60	0.014
ARITH MEAN		0.029<A	0.280	0.004	7.47	0.012	27.3	22.26	1.64	0.005
GEOM MEAN		0.018<A	0.275		7.47	0.011		21.71	1.22	0.004
MINIMUM		0.005	0.230	0.003	7.14	0.007	27.3	13.71	0.40	0.001
STD DEV (GEOM *)		0.029<A	0.060		0.28	0.004		5.02	1.40	0.004
# SAMP IN STATISTICS		9	9	2	9	9	1	8	9	9
% SAMP (EXCLUDED)				75						



## 1983 WATER QUALITY DATA REGION 5

64

B.O.W./ SITE: WANAPITEI RIVER  
 SAMPLE POINT: AT BRIDGE IN ST. CLOUD  
 STATION TYPE: RIVER FLOW GAUGE FED 02DB005

STATION ID: 03-0134-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER WEST CHANNEL

STORET CODE: 02  
 002  
 5500

LAT: 46 23 44.03 LONG: 080 48 02.87

U T M: 17 0515315.0 5137800.0 4

REGION: 05

DISTANCE: 72.740

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWFLOW
				ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	STREAM
SAMPLE		SAMPLE	PROJECT	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	FLOW
DATE	HOUR	DEPTH	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	M3
YYMMDD	LMT	M	CODE	AS CACO3	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	/S
830313	0740	14504	0101	16.1	0.160	2.78	88.6	0.013	13.00	0.400	53.800
830423	0940	14549	0101	14.0	0.160	3.41	96.8	0.024	12.00	0.535	14.900
830528	0645	14585	0101	17.5	0.110	1.22	85.5	0.009	12.00	0.215	97.200
830625	0720	14608	0101	17.6	0.076	0.63	82.7	0.013	12.00	0.200	22.600
830730	0740	14645	0101	20.4	0.130	0.63	82.5	0.007	11.00	0.165	12.600
830827	0650	14682	0101	22.0	0.042	1.47	93.2	0.009	12.00	0.140	11.300
831011	0730	14719	0101	20.0	0.067	2.92	107.4	0.002	12.00	0.260	13.200
831028	1710	14777	0101	16.9	0.057	2.27	129.0	0.014	12.00	0.215	18.400
831126	0805	14793	0101	16.6	0.078	2.17	103.8	0.012	12.00	0.180	45.800
MAXIMUM		0.30		22.0	0.160	3.41	129.0	0.024	13.00	0.535	97.200
ARITH MEAN		0.30		17.9	0.098	1.94	96.6	0.011	12.00	0.257	32.200
GEOM MEAN				17.7	0.089	1.66	95.7	0.010	11.99	0.234	24.145
MINIMUM		0.30		14.0	0.042	0.43	82.5	0.002	11.00	0.140	11.300
STD DEV (GEOM *)				2.5	0.044	1.01	15.0	0.006	0.50	0.129	28.811
# SAMP IN STATISTICS		9		9	9	9	9	9	9	9	9
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP
				NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR	
SAMPLE			WATER	UNF.TOT.	TOTAL	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	RESIDUE
DATE	HOUR	STREAM	TEMP	MG/L	MG/L	MG/L		UG/L	MG/L	MG/L	PARTIC.
YYMMDD	LMT	COND.	DEG.C	AS NI	AS N	AS PB	PH	PHENOL	AS P	AS P	MG/L
830313	0740	14504	3 6 8	0.090	0.004	0.004	7.44		0.0015<T	0.017	4.440
830423	0940	14549	6 8	0.180	0.036	0.003<	7.25		0.0040	0.029	9.660
830528	0645	14585	6 8 3	0.048	0.012	0.003<	7.18	0.2<T			6.820
830625	0720	14608	6 8	0.021	0.026	0.003<	7.35	1.2	0.0020<T	0.011	5.340
830730	0740	14645	6 8	0.020	0.034	0.003<	7.30	0.2<W	0.0010<T	0.008	2.700
830827	0650	14682	6 8 9	0.032	0.032	0.003<	7.20	0.6<T	0.0020<T	0.009	2.500
831011	0730	14719	6 8	0.094	0.028	0.003<	7.43	0.4<T	0.0015<T	0.012	2.410
831028	1710	14777	6 8	0.077	0.022	0.003<	7.30	0.2<T	0.0010<T	0.016	2.560
831126	0805	14793	6 8 9	0.110	0.014	0.003<	7.64	1.8	0.0010<T	0.010	2.820
MAXIMUM			20.0	0.180	0.036	0.004	7.64	1.8	0.0040	0.029	9.660
ARITH MEAN			11.6	0.075	0.023	0.004	7.34	0.7<A	0.0017<A	0.014	4.361
GEOM MEAN			8.4	0.059	0.020		7.34	0.5<A	0.0016<A	0.013	3.844
MINIMUM			2.0	0.020	0.004	0.004	7.18	0.2	0.0010	0.008	2.410
STD DEV (GEOM *)			8.1	0.052	0.011		0.14	0.6<A	0.0010<A	0.007	2.518
# SAMP IN STATISTICS			8	9	9	1	9	7	8	8	9
% SAMP (EXCLUDED)						88					

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

65

B.O.W./ SITE: WANAPITEI RIVER  
 SAMPLE POINT: AT BRIDGE IN ST. CLOUD  
 STATION TYPE: RIVER FLOW GAUGE FED 02DB005

STATION ID: 03-0134-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER WEST CHANNEL

STORET CODE: 02  
 002  
 5500

LAT: 46 23 44.03 LONG: 080 48 02.87 U T M: 17 0515315.0 5137800.0 4 REGION: 05 DISTANCE: 72.740

*INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
SAMPLE			UNF. TOT.
DATE	HOUR	SAMPLE	TURB'ITY
YYMMDD	LMT	NUMBER	FTU
			MG/L
			AS ZN
830313	0740	14504	4.20
830423	0940	14549	4.50
830528	0645	14585	1.60
830625	0720	14608	1.80
830730	0740	14645	2.90
830827	0650	14682	1.45
831011	0730	14719	2.60
831028	1710	14777	2.50
831126	0805	14793	3.20
MAXIMUM		4.50	0.015
ARITH MEAN		2.75	0.008
GEOM MEAN		2.56	0.007
MINIMUM		1.45	0.003
STD DEV (GEOM *)		1.08	0.004
# SAMP IN STATISTICS		9	9
% SAMP (EXCLUDED)			

## 1983 WATER QUALITY DATA REGION 5

66

B.O.W./ SITE: CONISTON CREEK  
 SAMPLE POINT: HIGHWAY 17 CONISTON  
 STATION TYPE: RIVER

STATION ID: 03-0134-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER WEST CHANNEL

STORET CODE: 02  
 002  
 5500

LAT: 46 29 39.03 LONG: 080 50 32.39 U T M: 17 0512100.0 5148750.0 4 REGION: 05 DISTANCE: 88.512

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	NIUT
				ALK	CONDUCT.	COPPER	DISOLVED	IRON			NICKEL
SAMPLE		SAMPLE	PROJECT	TOTAL	25C	UNF.TOT.	OXYGEN	UNF.TOT.		WATER	UNF.TOT.
DATE	HR	DEPTH	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	TEMP	MG/L
YYMMDD	LMT	NUMBER	CODE	AS CAC03	AT 25 C	AS CU	AS O	AS FE	COND.	DEG.C	AS NI
830308	0835	14506	0101	22.2	268.0	0.026	8.00	0.365	3 6 8		0.390
830423	1025	14551	0101	18.5	387.0	0.024	8.00	0.385	3 6 8	3.0	0.650
830528	0745	14587	0101	21.2	329.0	0.027	8.00	0.315	6 8 3	9.0	0.450
830625	0815	14610	0101	51.5	441.0	0.031	7.00	0.605	6 8	22.0	0.240
830730	0825	14647	0101	80.5	718.0	0.014	7.00	0.320	6 8	21.0	0.130
830827	0740	14684	0101	37.4	848.0	0.015	7.00	0.240	6 8	21.0	0.120
831011	0825	14721	0101	56.7	418.0	0.020	8.00	0.385	6 8	15.0	0.190
831028	1605	14775	0101	34.0	674.0	0.035	8.00	0.175	6 8	4.0	0.390
831126	0850	14795	0101	28.0	478.0	0.023	7.00	0.215	6 8 9	3.0	0.530
MAXIMUM		0.30		80.5	848.0	0.035	8.00	0.605		22.0	0.650
ARITH MEAN		0.30		38.9	506.8	0.024	7.56	0.334		12.2	0.343
GEOM MEAN				34.7	475.1	0.023	7.54	0.314		9.1	0.295
MINIMUM		0.30		18.5	268.0	0.014	7.00	0.175		3.0	0.120
STD DEV (GEOM *)				20.5	195.3	0.007	0.53	0.127		8.5	0.185
# SAMP IN STATISTICS		9		9	9	9	9	9		8	9
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT
			K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC
SAMPLE		FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.	UNF.REAC		UNF.TOT.
DATE	HR	MG/L	MG/L	MG/L		MG/L	MG/L	TURB'ITY	MG/L
YYMMDD	LMT	AS N	AS N	AS PB	PH	AS P	AS S04	FTU	AS ZN
830308	0835	0.560	0.450	0.003<	7.57	0.021	76.60	2.20	0.029
830423	1025	0.375	0.330	0.003<	7.41	0.022	131.40	2.80	0.017
830528	0745	0.030	0.240	0.003<	7.22	0.017	106.15	3.00	0.011
830625	0815	0.015	0.530	0.003	7.52	0.021	138.40	3.50	0.008
830730	0825	0.020	0.340	0.003<	7.82	0.010	284.20	3.90	0.002
830827	0740	0.010<T	0.360	0.003<	7.82	0.010	330.90	2.20	0.005
831011	0825	14721	0.370	0.003<	7.61	0.010	113.00	3.20	0.008
831028	1605	14775	0.260	0.003<	7.56	0.013	305.30	2.30	0.020
831126	0850	14795	0.180	0.003<	7.33	0.007	183.45	4.90	0.023
MAXIMUM		0.560	0.530	0.003	7.82	0.022	330.90	4.90	0.029
ARITH MEAN		0.168<A	0.340	0.003	7.54	0.015	185.49	3.11	0.014
GEOM MEAN		0.063<A	0.325		7.54	0.014	164.46	3.01	0.011
MINIMUM		0.010	0.180	0.003	7.22	0.007	76.60	2.20	0.002
STD DEV (GEOM *)		0.211<A	0.107		0.20	0.006	96.04	0.90	0.009
# SAMP IN STATISTICS		9	9	1	9	9	9	9	9
% SAMP (EXCLUDED)				88					

## 1983 WATER QUALITY DATA REGION 5

67

B.D.W./ SITE: CONISTON CREEK  
 SAMPLE POINT: UPSTREAM FROM WANAPITEI RIVER CONISTON  
 STATION TYPE: RIVER

STATION ID: 03-0134-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER WEST CHANNEL

STORET CODE: 02  
 002  
 5500

LAT: 46 28 29.27 LONG: 080 49 17.56

U T M: 17 0513700.0 5146600.0 4

REGION: 05

DISTANCE: 84.971

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP
SAMPLE DATE	HR	SAMPLE	PROJECT	ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON		
YYMMDD	LMT	NUMBER	SUB-PROJ CODE	TOTAL MG/L AS CACO3	UNF.REAC MG/L AS CL-	25C UMHO/CM AT 25 C	UNF.TOT. MG/L AS CU	OXYGEN MG/L AS O	UNF.TOT. MG/L AS FE	STREAM COND.	WATER TEMP DEG.C
830312	0810	14505	0101	23.7	19.40	266.0	0.052	8.00	0.695	3 6 8	
830423	1005	14550	0101	21.4	12.30	400.0	0.120	7.00	0.705	3 6 8	3.0
830528	0720	14586	0101	25.1	19.60	320.0	0.072	7.00	0.420	3 6 8	9.0
830625	0755	14609	0101	49.1	19.10	405.0	0.035	6.00	0.685	6 8	22.0
830730	0805	14646	0101	66.9	22.00	591.0	0.041	7.00	0.685	6 8	21.0
830827	0725	14683	0101	127.1	33.90	801.0	0.025	7.00	0.220	6 8	21.0
831011	0805	14720	0101	59.7	31.74	440.0	0.063	8.00	1.625	6 8 9	15.0
831028	1630	14776	0101				0.120	8.00		6 8	4.0
831126	0830	14794	0101	29.3	20.71	434.0	0.075	7.00	0.525	6 8 9	3.0
		MAXIMUM	0.30	127.1	33.90	801.0	0.120	8.00	1.625		22.0
		ARITH MEAN	0.30	50.3	22.34	457.1	0.067	7.22	0.695		12.2
		GEOM MEAN		41.8	21.39	433.5	0.059	7.19	0.606		9.1
		MINIMUM	0.30	21.4	12.30	266.0	0.025	6.00	0.220		3.0
		STD DEV (GEOM *)		35.6	7.09	168.3	0.034	0.67	0.413		8.5
		# SAMP IN STATISTICS	9	8	8	8	9	9	8		8
		% SAMP (EXCLUDED)									

*INTERIM TEST-NAME:		NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP	SS04UR
SAMPLE DATE	HR	NICKEL	NH3-N	TOTAL	K'DAHL N	LEAD		PO4	PHOSPHOR	RESIDUE	SULPHATE
YYMMDD	LMT	UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	NO2+NO3N MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P	PARTIC. MG/L	UNF.REAC MG/L AS SO4
830312	0810	14505	0.004	1.100	0.310	0.003<	7.32	0.0060	0.029	8.810	67.50
830423	1005	14550	0.004<T	0.825	0.370	0.003<	7.36	0.0150	0.059	10.200	126.60
830528	0720	14586	0.056	0.160	0.320	0.003<	7.33	0.0105	0.035	12.800	93.25
830625	0755	14609	0.004<T	0.335	0.550	0.003<	7.36	0.0220	0.055	10.800	126.75
830730	0805	14646	0.004<T	1.810	0.480	0.003<	7.31	0.0920	0.151	11.700	199.65
830827	0725	14683	0.900	0.770	0.510	0.003<	7.67	0.0620	0.104	2.230	297.30
831011	0805	14720	1.100	0.018	0.580	0.005	7.50	0.0450	0.084	19.500	107.00
831028	1630	14776	0.910								
831126	0830	14794	0.870	0.140	0.465	0.003<	7.38	0.0125	0.036	8.440	149.15
		MAXIMUM	1.500	0.140	1.810	0.005	7.67	0.0920	0.151	19.500	297.30
		ARITH MEAN	0.931	0.029<A	0.756	0.005	7.40	0.0331	0.069	10.560	145.90
		GEOM MEAN	0.885	0.011<A	0.606		7.40	0.0225	0.059	9.245	132.62
		MINIMUM	0.450	0.004	0.160	0.005	7.31	0.0060	0.029	2.230	67.50
		STD DEV (GEOM *)	0.305	0.048<A	0.519		0.12	0.0306	0.042	4.831	72.70
		# SAMP IN STATISTICS	9	8	8	8	8	8	8	8	8
		% SAMP (EXCLUDED)									

87

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

68

B.O.W./ SITE: CONISTON CREEK  
 SAMPLE POINT: UPSTREAM FROM WANAPITEI RIVER CONISTON  
 STATION TYPE: RIVER

STATION ID: 03-0134-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER WEST CHANNEL

STORET CODE: 02  
 002  
 5500

LAT: 46 28 29.27 LONG: 080 49 17.56

U T M: 17 0513700.0 5146600.0 4

REGION: 05

DISTANCE: 84.971

*=INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
SAMPLE			UNF.TOT.
DATE	HOUR	SAMPLE	TURB'ITY
YYMMDD	LMT	NUMBER	FTU
			MG/L
			AS ZN
830312	0810	14505	6.00
830423	1005	14550	5.70
830528	0720	14586	5.50
830625	0755	14609	6.50
830730	0805	14646	6.50
830827	0725	14683	6.50
831011	0805	14720	2.60
831028	1630	14776	0.035
831126	0830	14794	6.10
MAXIMUM		6.50	0.049
ARITH MEAN		5.67	0.028
GEOM MEAN		5.49	0.026
MINIMUM		2.60	0.009
STD DEV (GEOM *)		1.30	0.012
# SAMP IN STATISTICS		8	9
% SAMP (EXCLUDED)			

## 1983 WATER QUALITY DATA REGION 5

69

B.O.W./ SITE: WANAPITEI RIVER  
 SAMPLE POINT: AT TIMMINS CHUTE  
 STATION TYPE: RIVER

STATION ID: 03-0134-008-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER WEST CHANNEL

STORET CODE: 02  
 002  
 5500

LAT: 46 31 18.53 LONG: 080 42 33.37

U T M: 17 0522300.0 5151850.0 4

REGION: 05

DISTANCE: 96.075

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE		SAMPLE	SAMPLE	PROJECT	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HOUR	NUMBER	DEPTH	SUB-PROJ	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	
YYMMDD	LMT		M	CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM
					AS CAC03	AS AL	AT 25 C	AS CU	AS O	AS FE	COND.
830312		14511	0.30	0101	16.9	0.057	76.3	0.006	12.00	0.140	3 6 8
830423	1215	14555	0.30	0101	14.3	0.055	63.6	0.004	12.00	0.135	3 6 8
830528	0925	14591	0.30	0101	16.4	0.038	75.4	0.005	12.00	0.045	6 8 3
830625	0950	14614	0.30	0101	18.2	0.071	74.4	0.006	12.00	0.115	6 8
830730	0945	14651	0.30	0101	21.0	0.056	82.8	0.005	12.00	0.115	6 8
830811	1000	14725	0.30	0101	19.0	0.021	83.7	0.001<	13.00	0.140	6 8
830827	0925	14688	0.30	0101	21.0	0.037	74.0	0.006	13.00	0.100	6 8
831028	1500	14772	0.30	0101	16.6	0.036	78.4	0.011	13.00	0.240	6 8
831126	1015	14799	0.30	0101	16.1	0.059	75.8	0.007	13.00	0.085	6 8
		MAXIMUM	0.30		21.0	0.071	83.7	0.011	13.00	0.240	
		ARITH MEAN	0.30		17.7	0.048	76.0	0.006	12.44	0.124	
		GEOM MEAN			17.6	0.045	75.8		12.43	0.114	
		MINIMUM	0.30		14.3	0.021	63.6	0.004	12.00	0.045	
		STD DEV (GEOM *)			2.3	0.016	5.8		0.53	0.053	
		# SAMP IN STATISTICS	9		9	9	9	8	9	9	
		% SAMP (EXCLUDED)						11			
*INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
SAMPLE		WATER	NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR	RESIDUE	
DATE	HOUR	TEMP	UNF.TOT.	FIL.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	PARTIC.	TURB'ITY
YYMMDD	LMT	DEG.C	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	MG/L	FTU
			AS NI	AS N	AS PB		PHENOL	AS P	AS P		
830312			0.029	0.024	0.003<	7.58		0.007	0.007	1.020	1.00
830423	1215	3.0	0.019	0.020	0.003<	7.30		0.0005<W	0.006	1.770	0.74
830528	0925	9.0	0.016	0.008	0.003	7.27	0.2<T	0.0005<W	0.007	1.360	0.30
830625	0950	20.0	0.013	0.022	0.003<	7.38	0.8	0.0005<W	0.005	2.130	1.20
830730	0945	21.0	0.008	0.024	0.003<	7.55	0.2<T	0.0080	0.008	2.100	1.80
830811	1000	15.0	0.017	0.024	0.003<	7.24	0.2<W	0.0020<T	0.006	1.070	2.20
830827	0925	20.0	0.006	0.020	0.003<	7.25	0.8	0.0005<T	0.013	1.280	1.50
831028	1500	4.0	0.029	0.016	0.003<	7.28	0.6<T	0.0010<T	0.013	1.020	2.10
831126	1015	2.0	0.042	0.006	0.003<	7.41	0.2<T		0.004	1.420	1.50
		MAXIMUM	21.0	0.042	0.024	7.58	0.8	0.0080	0.013	2.130	2.20
		ARITH MEAN	11.7	0.020	0.018	7.36	0.4<A	0.002 <A	0.008	1.463	1.37
		GEOM MEAN	8.5	0.017	0.017	7.36	0.3<A	0.001 <A	0.007	1.408	1.20
		MINIMUM	2.0	0.006	0.006	7.24	0.2	0.0005	0.004	1.020	0.30
		STD DEV (GEOM *)	8.2	0.012	0.007	0.13	0.3<A	0.003 <A	0.003	0.438	0.63
		# SAMP IN STATISTICS	8	9	9	1	9	8	9	9	9
		% SAMP (EXCLUDED)				88					

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

70

B.O.W./ SITE: WANAPITEI RIVER  
SAMPLE POINT: AT TIMMINS CHUTE  
STATION TYPE: RIVER

STATION ID: 03-0134-008-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: FRENCH RIVER WEST CHANNEL

STORET CODE: 02  
002  
5500

LAT: 46 31 18.53 LONG: 080 42 33.37

U T M: 17 0522300.0 5151850.0 4

REGION: 05

DISTANCE: 96.075

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830312		14511	0.012
830423	1215	14555	0.009
830528	0925	14591	0.004
830625	0950	14614	0.005
830730	0945	14651	0.003
830811	1000	14725	0.011
830827	0925	14688	0.004
831028	1500	14772	0.011
831126	1015	14799	0.012
	MAXIMUM		0.012
	ARITH MEAN		0.008
	GEOM MEAN		0.007
	MINIMUM		0.003
	STD DEV (GEOM *)		0.004
	# SAMP IN STATISTICS		9
	% SAMP (EXCLUDED)		

## 1983 WATER QUALITY DATA REGION 5

71

B.O.W./ SITE: ROMFORD CREEK  
 SAMPLE POINT: UPSTREAM FROM JUNCTION WITH CONISTON CR  
 STATION TYPE: RIVER

STATION ID: 03-0134-013-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER WEST CHANNEL

STORET CODE: 02  
 002  
 5500

LAT: 46 29 08.23 LONG: 080 50 13.71 U T M: 17 0512500.0 5147800.0 4 REGION: 05 DISTANCE: 88.672

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALK	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	NIUT
				ALK	CONDUCT.	COPPER	DISOLVED	IRON			NICKEL
SAMPLE		SAMPLE	PROJECT	TOTAL	25C	UNF.TOT.	OXYGEN	UNF.TOT.		WATER	UNF.TOT.
DATE	HR	NUMBER	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	TEMP	MG/L
YYMMDD	LMT		CODE	AS CAC03	AT 25 C	AS CU	AS O	AS FE	COND.	DEG.C	AS NI
830312	0850	14507	0101	38.3	242.0	0.051	8.00	0.430	3 6 8		0.430
830423	1045	14552	0101	35.2	296.0	0.060	8.00	0.295	3 8	3.0	0.530
830528	0805	14588	0101	37.1	240.0	0.059	7.00	0.220	6 8	10.0	0.460
830625	0830	14611	0101	138.8	558.0	0.081	6.00	1.350	6 8	22.0	0.340
830827	0800	14685	0101	84.5	250.0	0.120	6.00	6.050	6 8 9	22.0	0.440
831011	0840	14722	0101	102.0	588.0	0.064	7.00	1.325	6 8	15.0	0.440
831028	1550	14774	0101	36.0	234.0	0.074	7.00	0.415	6 8	5.0	0.480
831126	0905	14796	0101	44.4	266.0	0.057	7.00	0.195	6 8 9	3.0	0.540
MAXIMUM		0.30		138.8	588.0	0.120	8.00	6.050		22.0	0.540
ARITH MEAN		0.30		64.5	334.2	0.071	7.00	1.285		11.4	0.457
GEOM MEAN				55.9	311.1	0.068	6.96	0.629		8.5	0.453
MINIMUM		0.30		35.2	234.0	0.051	6.00	0.195		3.0	0.340
STD DEV (GEOM *)				39.3	148.9	0.022	0.76	1.982		8.4	0.063
# SAMP IN STATISTICS		8		8	8	8	8	8		7	8
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT	
			K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC	
SAMPLE		N02+N03N	TOTAL	UNF.TOT.		UNF.TOT.	UNF.REAC		UNF.TOT.	
DATE	HR	FIL.REAC	MG/L	MG/L		MG/L	MG/L	TURB'ITY	MG/L	
YYMMDD	LMT	AS N	AS N	AS PB	PH	AS P	AS S04	FTU	AS ZN	
830312	0850	14507	0.590	2.100	0.003<	7.66	0.018	25.09	2.30	0.039
830423	1045	14552	2.020	0.530	0.003<	7.51	0.023	29.89	3.00	0.036
830528	0805	14588	0.565	0.410	0.003<	7.32	0.015	25.44	2.70	0.025
830625	0830	14611	0.040	0.900	0.004	7.64	0.052	40.76	8.20	0.020
830827	0800	14685	0.020	1.180	0.003<	7.29	0.052	23.60	6.50	0.039
831011	0840	14722	0.020	0.950	0.004	7.63	0.043	43.60	19.00	0.053
831028	1550	14774	0.110	0.390	0.005	7.50	0.025	42.23	7.60	0.069
831126	0905	14796	0.755	0.400	0.003<	7.27	0.015	38.03	3.40	0.050
MAXIMUM		2.020	2.100	0.005	7.66	0.052	43.60	19.00	0.089	
ARITH MEAN		0.515	0.857	0.004	7.48	0.030	33.58	6.59	0.044	
GEOM MEAN		0.175	0.720		7.48	0.027	32.63	5.14	0.040	
MINIMUM		0.020	0.390	0.004	7.27	0.015	23.60	2.30	0.020	
STD DEV (GEOM *)		0.677	0.585		0.16	0.016	8.44	5.53	0.021	
# SAMP IN STATISTICS		8	8	3	8	8	8	8	8	
% SAMP (EXCLUDED)				62						



## 1983 WATER QUALITY DATA REGION 5

72

B.O.W./ SITE: ROMFORD CREEK  
 SAMPLE POINT: EDWARD STREET BRIDGE, CONISTON  
 STATION TYPE: RIVER

STATION ID: 03-0134-014-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER WEST CHANNEL

STORET CODE: 02  
 002  
 5500

LAT: 46 29 03.43 LONG: 080 50 57.82 U T M: 17 0511560.0 5147650.0 4 REGION: 05 DISTANCE: 88.994

*INTERIM TEST-NAME:		FHSADP	FGPROJ	ALKT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	NIUT
				ALK	CONDUCT.	COPPER	DISOLVED	IRON		WATER	NICKEL
SAMPLE DATE	YHMMDD LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	TOTAL MG/L AS CAC03	UNF.TOT. MG/L AS CU	OXYGEN MG/L AS O	UNF.TOT. MG/L AS FE	STREAM COND.	TEMP DEG.C	UNF.TOT. MG/L AS NI
830312	0910	14508	0.30	0101	37.7	0.052	8.00	0.410	3 6 8		0.450
830423	1105	14553	0.30	0101	35.3	0.063	8.00	0.305	3 6 8	4.0	0.570
830528	0830	14589	0.30	0101	37.1	0.059	8.00	0.235	6 8	10.0	0.440
830626	0855	14612	0.30	0101	139.0	0.074	6.00	1.400	6 8	22.0	0.340
830811	0905	14723	0.30	0101	106.7	0.066	7.00	1.300	6 8 9	15.0	0.430
830827	0815	14686	0.30	0101	45.8	0.120		3.450			0.430
831028	1535	14773	0.30	0101	36.3	0.070	7.00	0.450	6 8	5.0	0.460
831126	0920	14797	0.30	0101	38.5	0.056	7.00	0.230	6 8 9	3.0	0.550
MAXIMUM		0.30			139.0	0.120	8.00	3.450		22.0	0.570
ARITH MEAN		0.30			59.5	0.070	7.29	0.972		9.8	0.459
GEOM MEAN					51.2	0.068	7.25	0.610		7.6	0.454
MINIMUM		0.30			35.3	0.052	6.00	0.230		3.0	0.340
STD DEV (GEOM *)					40.1	0.021	0.76	1.106		7.5	0.073
# SAMP IN STATISTICS		8			8	8	7	8		6	8
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT
			K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC
SAMPLE DATE	YHMMDD LMT	SAMPLE NUMBER	NO2+NO3N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	UNF.TOT. MG/L AS P	UNF.REAC MG/L AS S04	TURB'ITY FTU	UNF.TOT. MG/L AS ZN
830312	0910	14508	0.595	2.250	0.003<	7.56	0.017	24.93	0.040
830423	1105	14553	2.020	0.540	0.003<	7.48	0.027	29.31	0.038
830528	0830	14589	0.565	0.360	0.003<	7.36	0.013	25.18	0.024
830626	0855	14612	0.055	0.940	0.005	7.53	0.060	40.99	0.016
830811	0905	14723	0.020	0.750	0.003<	7.96	0.042	43.30	0.051
830827	0815	14686	0.025	1.150	0.003<	7.32	0.074	23.49	0.038
831028	1535	14773	0.115	0.370	0.004	7.42	0.026	43.86	0.082
831126	0920	14797	0.750	0.410	0.003	7.29	0.013	37.46	0.049
MAXIMUM		2.020	2.250	0.005	7.96	0.074	43.86	25.00	0.082
ARITH MEAN		0.518	0.846	0.004	7.49	0.034	33.56	7.69	0.042
GEOM MEAN		0.189	0.694		7.49	0.028	32.55	5.34	0.038
MINIMUM		0.020	0.360	0.003	7.29	0.013	23.49	2.00	0.016
STD DEV (GEOM *)		0.675	0.636		0.21	0.023	8.75	7.72	0.020
# SAMP IN STATISTICS		8	8	3	8	8	8	8	8
% SAMP (EXCLUDED)				62					

## 1983 WATER QUALITY DATA REGION 5

73

B.O.W./ SITE: CONISTON CREEK  
 SAMPLE POINT: AT N.I.R. ROAD  
 STATION TYPE: RIVER

STATION ID: 03-0134-016-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FRENCH RIVER WEST CHANNEL

STORET CODE: 02  
 002  
 5500

LAT: 46 33 48.27 LONG: 080 48 06.06 U T M: 17 0515200.0 5156450.0 4 REGION: 05 DISTANCE: 99.600

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	NIUT
				ALK	CONDUCT.	COPPER	DISOLVED	IRON			NICKEL
SAMPLE DATE	HOUR	SAMPLE	PROJECT	TOTAL	25C	UNF.TOT.	OXYGEN	UNF.TOT.		WATER	UNF.TOT.
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	TEMP	MG/L
			CODE	AS CAC03	AT 25 C	AS CU	AS O	AS FE	COND.	DEG.C	AS NI
830312	1005	14510	0101	16.5	794.0	0.047	8.00	1.900	6 8		1.000
830423	1140	14554	0101	16.2	599.0	0.043	8.00	1.275	3 6 8	4.0	1.100
830528	0910	14590	0101	10.5	894.0	0.036	8.00	0.865	6 8	10.0	0.870
830625	0925	14613	0101	36.2	954.0	0.034	8.00	0.915	6 8	22.0	0.410
830730	0930	14650	0101	77.4	928.0	0.009	7.00	0.370	6 8	22.0	0.320
830811	0940	14724	0101	38.0	1330.0	0.052	8.00	0.875	6 8	16.0	0.790
830827	0850	14687	0101	70.8	1265.0	0.011	7.00	0.480	6 8	22.0	0.310
831028	1440	14771	0101	36.7	1143.0	0.050	8.00	1.100	6 8	6.0	1.100
831126	0950	14798	0101	36.3	1217.0	0.032	8.00	0.600	6 8	4.0	1.200
MAXIMUM		0.30		77.4	1330.0	0.052	8.00	1.900		22.0	1.200
ARITH MEAN		0.30		37.6	1013.8	0.035	7.78	0.931		13.2	0.789
GEOM MEAN				31.2	986.0	0.030	7.77	0.835		10.6	0.700
MINIMUM		0.30		10.5	599.0	0.009	7.00	0.370		4.0	0.310
STD DEV (GEOM *)				23.3	241.5	0.016	0.44	0.464		8.2	0.355
# SAMP IN STATISTICS		9		9	9	9	9	9		8	9
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT	
			K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC	
SAMPLE DATE	HOUR	SAMPLE	FIL.REAC	UNF.REAC	UNF.TOT.	UNF.TOT.	UNF.REAC	TURB'ITY	UNF.TOT.	
YYMMDD	LMT	NUMBER	MG/L	MG/L	MG/L	MG/L	MG/L	FTU	MG/L	
			AS N	AS N	AS PB	AS P	AS S04		AS ZN	
830312	1005	14510	1.000	0.320	0.003<	6.67	0.045	367.10	7.20	0.023
830423	1140	14554	0.605	0.380	0.003<	6.91	0.050	254.05	4.20	0.017
830528	0910	14590	0.085	0.400	0.003<	6.48	0.035	471.75	3.20	0.016
830625	0925	14613	0.120	0.480	0.004	7.17	0.089	468.00	5.50	0.005
830730	0930	14650	0.100	0.350	0.003<	7.50	0.055	422.70	3.50	0.002
830811	0940	14724	0.040	0.880	0.003<	6.92	0.135	641.00	9.60	0.026
830827	0850	14687	0.015	0.410	0.003<	7.53	0.048	607.75	3.20	0.002
831028	1440	14771	0.210	0.590	0.003<	7.08	0.040	615.75	6.70	0.036
831126	0950	14798	0.460	0.460	0.003<	7.08	0.017	640.80	3.10	0.025
MAXIMUM		1.000	0.880	0.004	7.53	0.135	641.00	9.60	0.036	
ARITH MEAN		0.293	0.474	0.004	7.04	0.057	498.77	5.13	0.017	
GEOM MEAN		0.149	0.453		7.03	0.049	479.41	4.73	0.011	
MINIMUM		0.015	0.320	0.004	6.48	0.017	254.05	3.10	0.002	
STD DEV (GEOM *)		0.332	0.172		0.35	0.035	137.23	2.29	0.012	
# SAMP IN STATISTICS		9	9	1	9	9	9	9	9	
% SAMP (EXCLUDED)				88						

## 1983 WATER QUALITY DATA REGION 5

74

B.O.W./ SITE: GOULAIS RIVER  
 SAMPLE POINT: AT BRIDGE GOULAIS RIVER  
 STATION TYPE: RIVER

STATION ID: 07-0009-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE SUPERIOR  
 TERM STREAM: GOULAIS RIVER

STORET CODE: 02  
 001  
 0090

LAT: 46 43 26.29 LONG: 084 22 56.84 U T M: 16 0700025.0 5177600.0 4 REGION: 05 DISTANCE: 12.231

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HR	DEPTH	SUB-PROJ	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	STREAM
YYMMDD	LHT	M	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	COND.
				AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	
830228	1400	14013	0101	17.7	0.120	2.02	62.1	0.002	7.00	0.310	4 8
830316	1530	14031	0101	10.7	0.300	1.00	47.1	0.003	11.00	0.335	8 4
830428	1045	14049	0101	10.1	1.300	0.35	38.8	0.004	10.00	1.700	8 3
830531	1800	14070	0101	14.6	1.000	0.36	39.6	0.003	10.00	0.925	3
830621	1310	14083	0101	33.5	0.170	1.00	52.4	0.003	7.00	0.362	8
830726	1830	14104	0101	33.9	0.130	2.20	85.1	0.001	8.00	0.435	8
830831	1400	14132	0101	36.5	0.100	3.38	93.2	0.001	8.00	0.375	8
830920	1630	14149	0101	25.9	0.340	2.08	71.5	0.001	10.00	0.455	8
831029	1100	14170	0101	15.8	0.120	1.21	51.8	0.001<	10.00	0.215	8
831130	1700	14186	0101	14.4	0.290	0.94	47.1	0.003	9.00	1.500	
	MAXIMUM	0.30		36.5	1.300	3.38	93.2	0.004	11.00	1.700	
	ARITH MEAN	0.30		21.3	0.387	1.45	58.9	0.002	9.00	0.661	
	GEOM MEAN			19.2	0.256	1.16	56.4		8.90	0.519	
	MINIMUM	0.30		10.1	0.100	0.35	38.8	0.001	7.00	0.215	
	STD DEV (GEOM *)			10.2	0.417	0.95	18.8		1.41	0.532	
	# SAMP IN STATISTICS	10		10	10	10	10	9	10	10	
	% SAMP (EXCLUDED)							10			

*=INTERIM	TEST-NAME:	FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
SAMPLE		WATER	NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR	RESIDUE	TURB'ITY
DATE	HR	TEMP	UNF.TOT.	FIL.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	PARTIC.	FTU
YYMMDD	LHT	DEG.C	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	MG/L	
			AS NI	AS N	AS PB		PHENOL	AS P	AS P		
830228	1400		0.001<	0.052	0.037	7.12	0.2<W	0.0005<T	0.007	1.47	2.80
830316	1530		0.006	0.016	0.003<	6.89	0.4<T	0.0010<T	0.021	14.500	6.70
830428	1045		0.001	0.002<W	0.003<	6.85	1.0	0.0030	0.030	65.000	26.00
830531	1800	11.0	0.002	0.018	0.004	6.91	0.6<T	0.0015<T	0.058	45.100	18.20
830621	1310	22.0	0.002<	0.012	0.003	7.10	1.0	0.005 <T	0.018	9.330	2.00
830726	1830	24.5	0.002<	0.016	0.003<	7.59	0.6<T	0.0020<T	0.009	7.020	7.80
830831	1400	22.0	0.002<	0.030	0.003<	7.53	0.2<T	0.0005<T	0.009	4.710	4.00
830920	1630	13.5	0.002<	0.002<T	0.006	7.50	0.4<T	0.0030	0.029	11.900	8.20
831029	1100	6.0	0.010	0.008	0.003	7.09	0.2<W	0.0005<T	0.014	4.240	2.60
831130	1700		0.001	0.020	0.003	6.94	0.6<T	0.0030	0.058	67.800	24.00
	MAXIMUM	24.5	0.010	0.052	0.037	7.59	1.0	0.005	0.080	67.800	26.00
	ARITH MEAN	15.0	0.004	0.018<A	0.009	7.15	0.5<A	0.002 <A	0.030	23.11	10.23
	GEOM MEAN	13.0		0.012<A		7.15	0.4<A	0.001 <A	0.022	12.08	7.00
	MINIMUM	6.0	0.001	0.002	0.003	6.85	0.2	0.0005	0.007	1.47	2.00
	STD DEV (GEOM *)	7.8		0.015<A		0.28	0.3<A	0.001 <A	0.026	25.92	9.09
	# SAMP IN STATISTICS	7	5	10	6	10	10	10	10	10	10
	% SAMP (EXCLUDED)		50		40						

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

75

B.O.W./ SITE: GOULAIS RIVER  
SAMPLE POINT: AT BRIDGE GOULAIS RIVER  
STATION TYPE: RIVER

STATION ID: 07-0009-003-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE SUPERIOR  
TERM STREAM: GOULAIS RIVER

STORET CODE: 02  
001  
0090

LAT: 46 43 26.29 LONG: 084 22 56.84 U T M: 16 0700025.0 5177600.0 4 REGION: 05 DISTANCE: 12.231

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830228	1400	14013	0.035
830316	1530	14031	0.038
830428	1045	14049	0.008
830531	1800	14070	0.005
830621	1310	14083	0.007
830726	1830	14104	0.001
830831	1400	14132	0.001
830920	1630	14149	0.009
831029	1100	14170	0.002
831130	1700	14186	0.010

MAXIMUM 0.038  
ARITH MEAN 0.012  
GEOM MEAN 0.006  
MINIMUM 0.001  
STD DEV (GEOM \*) 0.014  
# SAMP IN STATISTICS 10  
% SAMP (EXCLUDED)

## 1983 WATER QUALITY DATA REGION 5

76

B.O.W./ SITE: STOKLEY CREEK  
 SAMPLE POINT: KARALASH CORNERS, VAN KOUGHNET TOWNSHIP  
 STATION TYPE: RIVER

STATION ID: 07-0020-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE SUPERIOR  
 TERM STREAM: STOKLEY CREEK

STORET CODE: 02  
 001  
 0180

LAT: 46 47 05.96 LONG: 084 21 18.22 U T M: 16 0701890.0 5184450.0 4 REGION: 05 DISTANCE: 6.437

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HOUR	DEPTH	SUB-PROJ	TOTAL	UNF. TOT.	UNF. REAC	25C	UNF. TOT.	OXYGEN	UNF. TOT.	
YYMMDD	LMT	M	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM
				AS CACO3	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	COND.
830228	1330	14012	0101	10.8	0.060	0.40	45.7	0.001<	10.00	0.105	4 8
830316	1510	14030	0101	7.5	0.088	0.32	40.7	0.001<	11.00	0.055	8
830429	1215	14048	0101	6.7	0.110	0.31	32.4	0.004	12.00	0.090	8
830531	1915	14069	0101	10.3	0.140	0.08<T	32.9	0.001	11.00	0.095	3
830621	1225	14082	0101	13.2	0.081	0.34	45.6	0.002	12.00	0.194	8
830726	1700	14103	0101	18.3	0.054	0.58	58.5	0.005	8.00	0.135	8
830831	1430	14131	0101	18.5	0.027	0.53	58.1	0.001<	10.00	0.095	8
830920	1700	14148	0101	16.3	0.280	0.42	44.5	0.001	11.00	0.760	8
831029	1120	14169	0101	12.6	0.060	0.50	41.9	0.001<	12.00	0.085	8
831127	1430	14185	0101	9.7	0.085	0.52	39.9	0.002	12.00	0.065	8
MAXIMUM		0.30		18.5	0.280	0.58	58.5	0.005	12.00	0.760	
ARITH MEAN		0.30		12.4	0.098	0.40<A	44.0	0.002	10.90	0.168	
GEOM MEAN				11.7	0.082	0.36<A	43.2		10.82	0.118	
MINIMUM		0.30		6.7	0.027	0.08	32.4	0.001	8.00	0.055	
STD DEV (GEOM *)				4.2	0.071	0.15<A	8.8		1.29	0.212	
# SAMP IN STATISTICS		10		10	10	10	10	6	10	10	
% SAMP (EXCLUDED)								40			

*INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
SAMPLE		WATER	NICKEL	TOTAL	LEAD		PHENOLS	P04	PHOSPHOR		
DATE	HOUR	TEMP	UNF. TOT.	FIL. REAC	UNF. TOT.		UNF. REAC	FIL. REAC	UNF. TOT.	RESIDUE	TURB.ITY
YYMMDD	LMT	DEG. C	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	PARTIC.	FTU
			AS NI	AS N	AS PB		PHENOL	AS P	AS P	MG/L	
830228	1330		0.001<	0.044	0.003<	7.11	0.2<W	0.0005<T	0.003<T	0.296<T	0.36
830316	1510		0.001<	0.068	0.003<	6.82	0.8	0.0010<W	0.020	3.100	0.90
830429	1215	2.5	0.001<	0.044	0.003<	6.61	1.0	0.0005<T	0.005	2.500	1.26
830531	1915	5.0	0.001	0.012	0.003<	6.67	0.6<T	0.0005<W	0.015	3.350	1.70
830621	1225	11.0	0.002<	0.018	0.003	7.04	1.4	0.0005<T	0.013	2.340	0.70
830726	1700	17.0	0.002<	0.014	0.003<	7.47	-0.4<T	0.0010<T	0.003<T	2.800	0.45
830831	1430	14103	0.002<	0.038	0.003<	7.45	0.4<T	0.0015<T	0.008	0.780<T	0.40
830920	1700	14131	0.002<	0.002<T	0.003<	7.01	0.2<T	0.0020<T	0.035	14.900	7.60
831029	1120	14148	0.002	0.014	0.003<	7.05	0.2<W	0.0005<T	0.013	1.450	0.55
831127	1430	14169	0.001	0.018	0.003<	6.79	0.4<T	0.0010<T	0.007	0.610<T	1.18
MAXIMUM		19.5	0.002	0.068	0.003	7.47	1.4	0.0020	0.035	14.900	7.60
ARITH MEAN		10.1	0.001	0.027<A	0.003	7.00	0.5<A	0.0009<A	0.012<A	3.213<A	1.51
GEOM MEAN		6.5		0.019<A		7.00		0.0008<A	0.009<A	1.868<A	0.92
MINIMUM		0.5	0.001	0.002	0.003	6.61	-0.4	0.0005	0.003	0.296	0.36
STD DEV (GEOM *)		7.3		0.020<A		0.29		0.0005<A	0.010<A	4.247<A	2.18
# SAMP IN STATISTICS		9	3	10	1	10	10	10	10	10	10
% SAMP (EXCLUDED)			70		90						

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

77

B.O.W./ SITE: STOKLEY CREEK  
SAMPLE POINT: KARALASH CORNERS, VAN KOUGHNET TOWNSHIP  
STATION TYPE: RIVER

STATION ID: 07-0020-001-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE SUPERIOR  
TERM STREAM: STOKLEY CREEK

STORET CODE: 02  
001  
0180

LAT: 46 47 05.96 LONG: 084 21 18.22 U T M: 16 0701890.0 5184450.0 4 REGION: 05 DISTANCE: 6.437

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
UNF.TOT.  
SAMPLE DATE HOUR SAMPLE MG/L  
YYMMDD LHT NUMBER AS ZN

830228	1330	14012	0.007
830316	1510	14030	0.006
830429	1215	14048	0.006
830531	1915	14069	0.003
830621	1225	14082	0.003
830726	1700	14103	0.002
830831	1430	14131	0.001
830920	1700	14148	0.002
831029	1120	14169	0.009
831127	1430	14185	0.009

MAXIMUM 0.009  
ARITH MEAN 0.005  
GEOM MEAN 0.004  
MINIMUM 0.001  
STD DEV (GEOM \*) 0.003  
# SAMP IN STATISTICS 10  
% SAMP (EXCLUDED)

## 1983 WATER QUALITY DATA REGION 5

78

B.O.W./ SITE: STOKLEY CREEK  
 SAMPLE POINT: AT HIGHWAY 17  
 STATION TYPE: RIVER

STATION ID: 07-0020-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE SUPERIOR  
 TERM STREAM: STOKLEY CREEK

STORET CODE: 02  
 001  
 0180

LAT: 46 48 55.66			LONG: 084 24 30.58			U T M: 16 0697700.0 5187700.0 4			REGION: 05		DISTANCE: 0.161	
*=INTERIM TEST-NAME:			FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE			SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HOUR	SAMPLE	DEPTH	SUB-PROJ	TOTAL	UNF. TOT.	UNF. REAC	25C	UNF. TOT.	OXYGEN	UNF. TOT.	
YYMMDD	LMT	NUMBER	M	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM
					AS CACO3	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	COND.
830228	1100	14011	0.30	0101	34.0	0.200	7.23	110.0	0.002	11.00	0.465	4 8
830316	1500	14029	0.30	0101	16.0	0.290	2.56	64.7	0.007	11.00	0.370	8
830429	1145	14047	0.30	0101	14.7	0.430	2.38	54.9	0.001	11.00	0.230	8
830531	1840	14068	0.30	0101	17.0		2.07	59.5	0.005		2.300	3
830726	1740	14102	0.30	0101	48.9	0.064	4.62	123.0	0.001	9.00	0.340	8
830831	1415	14130	0.30	0101	54.1	0.075	6.24	140.0	0.002	11.00	0.595	8
830920	1715	14147	0.30	0101	37.8	0.260	5.66	108.4	0.001	11.00	0.590	8
831029	1130	14168	0.30	0101	27.0	0.150	3.00	78.1	0.002	12.00	0.480	8
831127	1445	14184	0.30	0101	18.2	0.270	1.74	62.4	0.001	12.00	0.435	8
MAXIMUM			0.30		54.1	0.430	7.23	140.0	0.007	12.00	2.300	
ARITH MEAN			0.30		29.7	0.217	3.94	89.0	0.002	11.00	0.645	
GEOM MEAN					26.6	0.183	3.49	84.1	0.002	10.96	0.508	
MINIMUM			0.30		14.7	0.064	1.74	54.9	0.001	9.00	0.230	
STD DEV (GEOM *)					14.8	0.122	2.03	31.7	0.002	0.93	0.631	
# SAMP IN STATISTICS			9		9	8	9	9	9	8	9	
% SAMP (EXCLUDED)												
*=INTERIM TEST-NAME:			FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
SAMPLE			WATER	NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR	RESIDUE	
DATE	HOUR	SAMPLE	TEMP	UNF. TOT.	FIL. REAC	UNF. TOT.		UNF-REAC	FIL. REAC	UNF. TOT.	PARTIC.	TURB'ITY
YYMMDD	LMT	NUMBER	DEG.C	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	MG/L	FTU
				AS NI	AS N	AS PB		PHENOL	AS P	AS P		
830228	1100	14011		0.001<	0.002<T	0.009	7.37	0.2<W	0.0010<T	0.010	6.770	4.80
830316	1500	14029	2.0	0.005	0.004<T	0.003<	7.10	1.2	0.0015<T	0.022	15.400	6.70
830429	1145	14047	5.0	0.001<	0.004<T	0.005	6.89	1.4	0.0020<T	0.017	16.500	11.50
830531	1840	14068	10.0	0.002	0.006	0.003<	7.09	0.6<T	0.0080	0.085	75.400	16.00
830726	1740	14102	22.5	0.002<	0.092	0.003<	7.70	0.4<T	0.0050	0.009	3.690	2.80
830831	1415	14130	18.5	0.002	0.006	0.003<	7.32	0.6<T	0.0015<T	0.023	10.600	3.10
830920	1715	14147	12.5	0.002<	0.002<T	0.004	7.56	0.2<T	0.0030	0.026	7.120	8.10
831029	1130	14168	4.0	0.003	0.008	0.003<	7.20	0.2<W	0.0010<T	0.021	13.700	4.70
831127	1445	14184	1.0	0.001	0.008	0.003<	7.13	0.2<T			12.600	6.90
MAXIMUM			22.5	0.005	0.092	0.009	7.70	1.4	0.0080	0.085	75.400	16.00
ARITH MEAN			9.4	0.003	0.015<A	0.006	7.26	0.6<A	0.0029<A	0.027	17.976	7.18
GEOM MEAN			6.2		0.006<A		7.26	0.4<A	0.0022<A	0.021	12.255	6.20
MINIMUM			1.0	0.001	0.002	0.004	6.89	0.2	0.0010	0.009	3.690	2.80
STD DEV (GEOM *)			7.9		0.029<A		0.25	0.5<A	0.0025<A	0.024	21.953	4.26
# SAMP IN STATISTICS			8	5	9	3	9	9	8	8	9	9
% SAMP (EXCLUDED)				44		66						

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

79

B.O.W./ SITE: STOKLEY CREEK  
SAMPLE POINT: AT HIGHWAY 17  
STATION TYPE: RIVER

STATION ID: 07-0020-002-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE SUPERIOR  
TERM STREAM: STOKLEY CREEK

STORET CODE: 02  
001  
0180

LAT: 46 48 55.66 LONG: 084 24 30.58 U T M: 16 0697700.0 5187700.0 4 REGION: 05 DISTANCE: 0.161

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
UNF.TOT.  
SAMPLE DATE HOUR SAMPLE MG/L  
YYMMDD LHT NUMBER AS ZN

830228	1100	14011	0.009
830316	1500	14029	0.110
830429	1145	14047	0.005
830531	1840	14068	0.005
830726	1740	14102	0.003
830831	1415	14130	0.003
830920	1715	14147	0.003
831029	1130	14168	0.013
831127	1445	14184	0.003
MAXIMUM			0.110
ARITH MEAN			0.017
GEOM MEAN			0.007
MINIMUM			0.003
STD DEV (GEOM *)			0.035
# SAMP IN STATISTICS			9
% SAMP (EXCLUDED)			



## 80

STATION ID: 07-0028-001-02

STORET CODE: 02  
001  
0260

**DISTANCE: 0.805**

[illegible]

## 1983 WATER QUALITY DATA REGION 5

81

B.O.W./ SITE: BATCHAWANA RIVER  
 SAMPLE POINT: AT HIGHWAY 17  
 STATION TYPE: RIVER FLOW GAUGE FED 02BF001

STATION ID: 07-0031-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE SUPERIOR  
 TERM STREAM: BATCHAWANA RIVER

STORET CODE: 02  
 001  
 0280

LAT: 46 55 59.90 LONG: 084 31 41.79 U T M: 16 0688150.0 5200500.0 4 REGION: 05 DISTANCE: 0.322

SAMPLE		TEST-NAME:	FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWFLOW
DATE	HOUR			PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	STREAM
YYMMDD	LMT	SAMPLE NUMBER	SAMPLE DEPTH M	SUB-PROJ CODE	TOTAL MG/L AS CAC03	UNF.TOT. MG/L AS AL	UNF.REAC MG/L AS CL-	25C UMHO/CM AT 25 C	UNF.TOT. MG/L AS CU	OXYGEN MG/L AS O	UNF.TOT. MG/L AS FE	FLOW M3 /S
830228	1100	14015	0.30	0101	20.5	0.064	1.04	61.9	0.002	12.00	0.270	8.000
830316	1400	14033	0.30	0101	11.2	0.130	0.31	43.7	0.004	12.00	0.115	26.100
MAXIMUM			0.30		20.5	0.130	1.04	61.9	0.004	12.00	0.270	26.100
ARITH MEAN			0.30		15.8	0.097	0.67	52.8	0.003	12.00	0.192	17.050
GEOM MEAN					15.2	0.091	0.57	52.0	0.003	12.00	0.176	14.450
MINIMUM			0.30		11.2	0.064	0.31	43.7	0.002	12.00	0.115	8.000
STD DEV (GEOM *)					6.6	0.047	0.52	12.9	0.001	0.00	0.110	12.799
# SAMP IN STATISTICS			2		2	2	2	2	2	2	2	2
% SAMP (EXCLUDED)												

SAMPLE		TEST-NAME:	FWSTRC	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
DATE	HOUR			NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR		
YYMMDD	LMT	SAMPLE NUMBER	STREAM COND.	UNF.TOT. MG/L AS NI	TOTAL FIL.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	UNF-REAC UG/L PHENOL	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	TURB'ITY FTU
830228	1100	14015	4 8	0.001<	0.048	0.044	7.25	1.2	0.0005<T	0.005	0.032<T	2.90
830316	1400	14033	8 4	0.003	0.054	0.015	6.87	0.8	0.0010<W	0.011	2.410	1.00
MAXIMUM				0.003	0.054	0.044	7.25	1.2	0.0010	0.011	2.410	2.90
ARITH MEAN				0.003	0.051	0.029	7.06	1.0	0.0007<A	0.008	1.221<A	1.95
GEOM MEAN					0.051	0.026	7.06	1.0	0.0007<A	0.007	0.278<A	1.70
MINIMUM				0.003	0.048	0.015	6.87	0.8	0.0005	0.005	0.032	1.00
STD DEV (GEOM *)					0.004	0.021	0.27	0.3	0.0004<A	0.004	1.681<A	1.34
# SAMP IN STATISTICS				1	2	2	2	2	2	2	2	2
% SAMP (EXCLUDED)				50								

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

82

B.O.W./ SITE: BATCHAWANA RIVER  
SAMPLE POINT: AT HIGHWAY 17  
STATION TYPE: RIVER FLOW GAUGE FED 02BF001

STATION ID: 07-0031-001-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE SUPERIOR  
TERM STREAM: BATCHAWANA RIVER

STORET CODE: 02  
001  
0280

LAT: 46 55 59.90 LONG: 084 31 41.79 U T M: 16 0688150.0 5200500.0 4 REGION: 05 DISTANCE: 0.322

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN  
  
830228 1100 14015 0.023  
830316 1400 14033 0.054  
  
MAXIMUM 0.054  
ARITH MEAN 0.038  
GEOM MEAN 0.035  
MINIMUM 0.023  
STD DEV (GEOM \*) 0.022  
# SAMP IN STATISTICS 2  
% SAMP (EXCLUDED)

## 1983 WATER QUALITY DATA REGION 5

83

B.O.W./ SITE: ST.MARYS RIVER  
 SAMPLE POINT: AT HURON STREET DAM (CENTRE)  
 STATION TYPE: RIVER FLOW GAUGE FED 02CA001

STATION ID: 13-0000-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON

STORET CODE: 02  
 002

LAT: 46 30 53.47 LONG: 084 20 56.55 U T M: 16 0703360.0 5154450.0 4 REGION: 05

**INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CCNAUR CYANIDE	COND25	CUUT	DO	FEUT	FWFLOW	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	AVAIL	CONDUCT.	COPPER	DISOLVED	IRON	STREAM	
DATE	HR	DEPTH	SUB-PROJ	TOTAL	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	FLOW	
YYMMDD	LHT	NUMBER	CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	M3	STREAM
				AS CACO3	AS HCN	AT 25 C	AS CU	AS O	AS FE	/S	COND.
830227	1245	14006	0101	42.7	0.001<W	98.4	0.001<	12.00	0.055	0	8
830314	1305	14024	0101	44.1	0.001<W	103.0	0.003	13.00	0.030<T	2460.00	8
830428	1335	14042	0101	43.5	0.001<W	136.0	0.006	13.00	0.120	2440.00	8
830530	1145	14063	0101	46.6	0.004	97.0	0.006	11.00	0.075	2930.00	3
830620	1215	14077	0101	44.5	0.001<W	94.6	0.001	12.00	0.036<T	2950.00	8
830726	1330	14098	0101	45.0	0.002<T	98.2	0.001	8.00	0.070	2920.00	8
830830	1520	14124	0101	44.1	0.001<W	92.9	0.001<	8.00	0.045	2990.00	8
830922	1730	14142	0101	45.2	0.001<T	96.7	0.002	11.00	0.060	2370.00	8
831028	1740	14160	0101	43.6	0.001<W	93.1	0.001	12.00	0.040<T	1710.00	8
831127	1200	14179	0101	45.2	0.001<T	99.0	0.003	12.00	0.040<T	2390.00	8

MAXIMUM	0.30	46.6	0.004	136.0	0.006	13.00	0.120	2990.00
ARITH MEAN	0.30	44.4	0.001<A	100.9	0.003	11.20	0.057<A	2316
GEOM MEAN		44.4	0.001<A	100.3		11.05	0.053<A	
MINIMUM	0.30	42.7	0.001	92.9	0.001	8.00	0.030	0
STD DEV (GEOM *)		1.1	0.001<A	12.7		1.81	0.027<A	
# SAMP IN STATISTICS	10	10	10	10	8	10	10	10
% SAMP (EXCLUDED)					20			

**INTERIM TEST-NAME:		FWTEMP	NNOTFR	NNTKUR K'DAHL N	PBUT	PH	PHNOL	PPUT	RSP	SOLEXT	TURB
SAMPLE		WATER	NO2+NO3N	TOTAL	LEAD		PHENOLS	PHOSPHOR	RESIDUE	SOLVENT	TURB'ITY
DATE	HR	TEMP	FIL.REAC	UNF.REAC	UNF.TOT.		UNF-REAC	UNF.TOT.	PARTIC.	EXTRACT.	FTU
YYMMDD	LHT	DEG.C	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	MG/L	
			AS N	AS N	AS PB		PHENOL	AS P			
830227	1245	14006	0.300	0.110	0.003<	7.94	0.4<T	0.007	1.43	0	0.74
830314	1305	14024	1.5	0.310	0.130	7.94	0.2<T	0.009	4.280	2	1.06
830428	1335	14042	3.0	0.300	0.150	7.81	0.8	0.012	2.170	0	3.20
830530	1145	14063	6.0	0.300	0.120	7.79	0.6<T	0.005	3.160	0	2.30
830620	1215	14077	10.5	0.270	0.130	7.94	1.8	0.011	1.000	0	0.40
830726	1330	14098	19.5	0.250	0.110	8.08	0.8	0.004<T	1.200	0	1.10
830830	1520	14124	21.5	0.260	0.120	8.02	5.2	0.005	1.560	0	1.00
830922	1730	14142	15.0	0.265	0.160	8.17	0.4<T	0.012	2.000	1	1.13
831028	1740	14160	8.0	0.280	0.120	8.06	0.2<T	0.011	1.580	0	0.72
831127	1200	14179	5.0	0.290	0.120	7.91	0.4<T	0.007	1.310	0	1.30

MAXIMUM	21.5	0.310	0.160	0.014	8.17	5.2	0.012	4.280	2	3.20
ARITH MEAN	10.0	0.282	0.127	0.014	7.97	1.1<A	0.008<A	1.97	0	1.29
GEOM MEAN	7.5	0.282	0.126		7.97	0.6<A	0.008<A	1.78		1.10
MINIMUM	1.5	0.250	0.110	0.014	7.79	0.2	0.004	1.000	0	0.40
STD DEV (GEOM *)	7.2	0.020	0.016		0.12	1.5<A	0.003<A	1.02		0.84
# SAMP IN STATISTICS	9	10	10	1	10	10	10	10	10	10
% SAMP (EXCLUDED)				90						( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

84

B.O.W./ SITE: ST.MARYS RIVER  
SAMPLE POINT: AT HURON STREET DAM (CENTRE)  
STATION TYPE: RIVER FLOW GAUGE FED 02CA001

STATION ID: 13-0000-003-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON

STORET CODE: 02  
002

LAT: 46 30 53.47 LONG: 084 20 56.55 U T M: 16 0703360.0 5154450.0 4 REGION: 05

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830227	1245	14006	0.007
830314	1305	14024	0.012
830428	1335	14042	0.010
830530	1145	14063	0.008
830620	1215	14077	0.008
830726	1330	14098	0.001
830830	1520	14124	0.002
830922	1730	14142	0.003
831028	1740	14160	0.005
831127	1200	14179	0.012

MAXIMUM 0.012  
ARITH MEAN 0.007  
GEOM MEAN 0.005  
MINIMUM 0.001  
STD DEV (GEOM \*) 0.004  
# SAMP IN STATISTICS 10  
% SAMP (EXCLUDED)

## 1983 WATER QUALITY DATA REGION 5

85

B.O.W./ SITE: ST.MARYS RIVER  
 SAMPLE POINT: AT BELL'S POINT DOCK  
 STATION TYPE: RIVER

STATION ID: 13-0000-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON

STORET CODE: 02  
 002

LAT: 46 32 15.15 LONG: 084 12 54.15 U T M: 16 0713550.0 5157325.0 4 REGION: 05

*=INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	ALUT	CCNAUR CYANIDE	CLIDUR	COND25	CUUT	DO	FEUT
				ALK	ALUMINUM	AVAIL	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON
SAMPLE		SAMPLE	SAMPLE	TOTAL	UNF.TOT.	UNF.REAC	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.
DATE	HR	NUMBER	DEPTH	MG/L	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L
YYMMDD	LMT		M	AS CAC03	AS AL	AS HCN	AS CL-	AT 25 C	AS CU	AS O	AS FE
830314	1200	14020	0.30	40.2		0.002<T	1.76	95.1	0.014	10.00	0.235
830428	1515	14038	0.30	43.4		0.003<T	1.70	95.5	0.003	12.00	0.075
830530	1715	14059	0.30	42.9		0.004	1.38	97.7	0.007	13.00	0.120
830620	1440	14074	0.30	44.4		0.002<T	1.37	97.6	0.002	11.00	0.167
830726	1030	14095	0.30	46.3		0.003<T	1.44	100.3	0.020	8.00	0.090
830823	2020	14120	0.30	45.4	0.047	0.001<T	1.45	92.0	0.004	10.00	0.120
830921	1439	14139	0.30	41.9		0.002<T	1.70	93.6	0.001	11.00	0.290
831028	1610	14157	0.30	44.9		0.003	1.68	95.9	0.002	11.00	0.195
831117	1245	14176	0.30	44.3		0.001<T	2.35	103.4	0.002	12.00	0.385
MAXIMUM		0.30		46.3	0.047	0.004	2.35	103.4	0.020	13.00	0.385
ARITH MEAN		0.30		43.7	0.047	0.002<A	1.65	96.8	0.006	10.89	0.186
GEOM MEAN				43.7		0.002<A	1.63	96.7	0.004	10.80	0.163
MINIMUM		0.30		40.2	0.047	0.001	1.37	92.0	0.001	8.00	0.075
STD DEV (GEOM *)				1.9		0.001<A	0.30	3.5	0.007	1.45	0.102
# SAMP IN STATISTICS		9		9	1	9	9	9	9	9	9
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR NH3-N	NNOTFR	NNTKUR K'DAHL N	PBUT	PH	PHNOL	PP04FR
				NICKEL	TOTAL	NO2+NO3N	TOTAL	LEAD		PHENOLS	P04
SAMPLE		SAMPLE	STREAM	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.REAC	FIL.REAC
DATE	HR	NUMBER	COND.	MG/L	MG/L	MG/L	MG/L	MG/L		UG/L	MG/L
YYMMDD	LMT			AS NI	AS N	AS N	AS N	AS PB	PH	PHENOL	AS P
830314	1200	14020	8		0.004<T	0.405	0.160	0.003<	7.85	5.4	0.0050
830428	1515	14038	8		0.040	0.320	0.140	0.003	7.75	0.6<T	0.0050
830530	1715	14059	3		0.002<T	0.350	0.200	0.003<	7.76	1.6	0.0070
830620	1440	14074	8		0.004<T	0.255	0.180	0.003<	7.67	1.4	0.0030
830726	1030	14095	8		0.068	0.250	0.190	0.004	7.68	1.6	0.0050
830823	2020	14120	8	0.002<	0.002<T	0.320	0.140	0.004	7.78	0.4<T	0.0040
830921	1439	14139	8		0.002<T	0.320	0.310	0.010	7.50	0.4<T	0.0050
831028	1610	14157	8		0.086	0.270	0.230	0.003	8.04	1.2	0.0035
831117	1245	14176	8		0.114	0.300	0.350	0.005	7.29	1.8	0.0120
MAXIMUM			20.0		0.114	0.405	0.350	0.010	8.04	5.4	0.0120
ARITH MEAN			10.9		0.036<A	0.310	0.211	0.005	7.70	1.6<A	0.0055
GEOM MEAN			8.8		0.011<A	0.307	0.201		7.70	1.2<A	0.0051
MINIMUM			2.5		0.002	0.250	0.140	0.003	7.29	0.4	0.0030
STD DEV (GEOM *)			6.8		0.044<A	0.049	0.074		0.21	1.5<A	0.0027
# SAMP IN STATISTICS			9		9	9	9	6	9	9	9
% SAMP (EXCLUDED)								33			

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

86

B.O.W./ SITE: ST.MARYS RIVER  
 SAMPLE POINT: AT BELL'S POINT DOCK  
 STATION TYPE: RIVER

STATION ID: 13-0000-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON

STORET CODE: 02  
 002

LAT: 46 32 15.15 LONG: 084 12 54.15 U T M: 16 0713550.0 5157325.0 4 REGION: 05

*INTERIM TEST-NAME:		PPUT	RSP	SOLEXT	TURB	ZNUT	
		PHOSPHOR	RESIDUE	SOLVENT	TURB	ZINC	
SAMPLE		UNF.TOT.	PARTIC.	EXTRACT.	ITY	UNF.TOT.	
DATE	HR	MG/L	MG/L	MG/L	FTU	MG/L	
YYMMDD	LMT	AS P				AS ZN	
830314	1200	14020	0.015	9.940	0	1.06	0.016
830428	1515	14038	0.009	1.350	0	1.07	0.003
830530	1715	14059	0.017	2.940	0	6.90	0.004
830620	1440	14074	0.021	3.410	0	1.70	0.005
830726	1030	14095	0.014	2.480	2	1.25	0.001
830823	2020	14120	0.010	2.700	0	0.80	0.002
830921	1439	14139	0.053	7.340	0	3.70	0.010
831028	1610	14157	0.023	2.160	0	1.10	0.012
831117	1245	14176	0.053	24.300	1	1.70	0.013
MAXIMUM		0.053	24.300	2	6.90	0.016	
ARITH MEAN		0.024	6.291	0	2.14	0.007	
GEOM MEAN		0.020	4.127		1.65	0.005	
MINIMUM		0.009	1.350	0	0.80	0.001	
STD DEV (GEOM *)		0.017	7.307		1.98	0.005	
# SAMP IN STATISTICS		9	9	9	9	9	
% SAMP (EXCLUDED)							

## 1983 WATER QUALITY DATA REGION 5

87

B.O.W./ SITE: ST.MARYS RIVER  
 SAMPLE POINT: AT PRIVATE DOCK E.OF S.S.MARIE GOLF CLUB  
 STATION TYPE: RIVER

STATION ID: 13-0000-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON

STORET CODE: 02  
 002

LAT: 46 29 48.47 LONG: 084 16 12.83 U T M: 16 0709475.0 5152650.0 4 REGION: 05

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CCNAUR CYANIDE AVAIL	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	UNF.REAC MG/L AS HCN	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	DISOLVED OXYGEN MG/L AS O	IRON UNF.TOT. MG/L AS FE	STREAM COND.	WATER TEMP DEG.C
830227	1115	14003	0.30	0101	44.5	0.004<T	107.0	0.001<	11.00	0.155	9	0.5
830314	1220	14021	0.30	0101	44.1	0.005	108.0	0.005	10.00	0.065	8	2.0
830428	1515	14039	0.30	0101	44.1	0.003<T	108.4	0.002	8.00	0.195	8	4.0
830530	1645	14060	0.30	0101	46.9	0.005	107.0	0.006	11.00	0.235	3	7.0
830620	1410	14075	0.30	0101	44.4	0.002<T	97.8	0.006	12.00	0.086	8	14.0
830726	1045	1409	0.30	0101	46.2	0.003<T	99.9	0.001	8.00	0.060	8	20.0
830830	1400	14121	0.30	0101	44.2	0.001<W	92.2	0.005	9.00	0.160	8	22.0
830922	1605	14140	0.30	0101	43.7	0.001<W	96.4	0.003	11.00	0.110	8	15.5
831028	1630	14158	0.30	0101	45.3	0.006	96.1	0.001	12.00	0.140	8	7.5
831127	1230	14177	0.30	0101	47.7	0.003<T	109.5	0.002	12.00	0.195	8	4.0
MAXIMUM		0.30			47.7	0.006	109.5	0.006	12.00	0.235		22.0
ARITH MEAN		0.30			45.1	0.003<A	102.2	0.003	10.40	0.140		9.6
GEOM MEAN					45.1	0.003<A	102.0		10.29	0.128		6.2
MINIMUM		0.30			43.7	0.001	92.2	0.001	8.00	0.060		0.5
STD DEV (GEOM *)					1.4	0.002<A	6.4		1.58	0.059		7.7
# SAMP IN STATISTICS		10			10	10	10	9	10	10		10
% SAMP (EXCLUDED)								10				

*=INTERIM TEST-NAME:		NNOTFR	NNTKUR K'DAHL N	PBUT	PH	PHNOL	PPUT	RSP	SOLEXT	TURB	ZNUT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	NO2+NO3N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PHENOLS UNF.REAC UG/L PHENOL	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	SOLVENT EXTRACT. MG/L	TURB*ITY FTU	ZINC UNF.TOT. MG/L AS ZN
830227	1115	14003	0.320	0.220	0.003<	7.76	5.2	0.015	2.996	0	0.008
830314	1220	14021	0.330	0.160	0.006	7.96	7.0	0.005	3.590	3	0.009
830428	1515	14039	0.370	0.140	0.003	7.61	2.0	0.017	3.280	2	0.004
830530	1645	14060	0.380	0.160	0.003<	7.64	2.2	0.014	6.700	0	0.003
830620	1410	14075	0.270	0.160	0.003<	7.89	2.4	0.015	1.870	2	0.008
830726	1045	1409	0.245	0.180	0.003<	8.01	0.2<W	0.011	1.410	2	0.002
830830	1400	14121	0.255	0.200	0.003<	8.01	0.4<T	0.005	2.110	0	0.006
830922	1605	14140	0.315	0.190	0.003<	7.88	0.6<T	0.025	1.610	0	0.005
831028	1630	14158	0.285	0.200	0.003<	8.04	1.0	0.014	2.920	1	0.006
831127	1230	14177	0.310	0.210	0.008	8.01	1.8	0.106	3.570	1	0.011
MAXIMUM		0.380	0.220	0.008	8.04	7.0	0.106	6.700	3	3.20	0.011
ARITH MEAN		0.308	0.182	0.006	7.88	2.3<A	0.023	3.006	1	1.49	0.006
GEOM MEAN		0.305	0.180		7.88	1.4<A	0.015	2.719		1.31	0.006
MINIMUM		0.245	0.140	0.003	7.61	0.2	0.005	1.410	0	0.75	0.002
STD DEV (GEOM *)		0.045	0.026		0.16	2.2<A	0.030	1.527		0.86	0.003
# SAMP IN STATISTICS		10	10	3	10	10	10	10	9	10	10
% SAMP (EXCLUDED)				70							



## 1983 WATER QUALITY DATA REGION 5

88

B.O.W./ SITE: ST.MARYS RIVER  
 SAMPLE POINT: AT SAULT STE MARIE CIVIC CENTRE  
 STATION TYPE: RIVER

STATION ID: 13-0000-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON

STORET CODE: 02  
 002

LAT: 46 30 27.12 LONG: 084 20 03.17 U T M: 16 0704525.0 5153675.0 4 REGION: 05

*=INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	CCNAUR	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP
					ALK	CYANIDE						
					MG/L	AVAIL	CONDUCT.	COPPER	DISOLVED	IRON		WATER
					MG/L	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.		TEMP
					AS CAC03	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	DEG.C
						AS HCN	AT 25 C	AS CU	AS O	AS FE	COND.	
SAMPLE	DATE	HR	SAMPLE	DEPTH	PROJECT							
YYMMDD	LMT	NUMBER	M	CODE	SUB-PROJ							
830227	1130	14004	0.30	0101		43.3	0.002<T	101.0	0.001<	12.00	8	
830314	1240	14022	0.30	0101		43.1	0.002<T	101.0	0.006	11.00	8	1.0
830428	1415	14040	0.30	0101		42.5	0.009	97.3	0.003	12.00	8	3.0
830530	1225	14061	0.30	0101		46.8	0.005	100.0	0.001	12.00	3	6.0
830620	1235	14076	0.30	0101		50.4	0.003<T	96.9	0.001	8.00	8	10.5
830726	1300	14097	0.30	0101		45.3	0.003<T	98.9	0.001	8.00	8	19.5
830830	1430	14122	0.30	0101		44.9	0.001<T	89.8	0.001	9.00	8	21.5
830922	1650	14141	0.30	0101		44.2	0.001<W	95.2	0.002	11.00	8	15.5
831028	1645	14159	0.30	0101		45.4	0.002	96.9	0.009	12.00	8	8.0
831127	1215	14178	0.30	0101		45.1	0.002<T	102.7	0.003	12.00	8	4.5
			MAXIMUM	0.30		50.4	0.009	102.7	0.009	12.00		21.5
			ARITH MEAN	0.30		45.1	0.003<A	98.0	0.003	10.70		9.9
			GEOM MEAN			45.1	0.002<A	97.9		10.57		7.1
			MINIMUM	0.30		42.5	0.001	89.8	0.001	8.00		1.0
			STD DEV (GEOM *)			2.3	0.002<A	3.7		1.70		7.4
			# SAMP IN STATISTICS	10		10	10	10	10	10		9
			% SAMP (EXCLUDED)					10				
*=INTERIM		TEST-NAME:	NNOTFR	NNTKUR	PBUT	PH	PHNOL	PPUT	RSP	SOLEXT	TURB	ZNUT
				K'DAHL N								
				TOTAL	LEAD		PHENOLS	PHOSPHOR				ZINC
				UNF.REAC	UNF.TOT.		UNF-REAC	UNF.TOT.	RESIDUE	SOLVENT	TURB'ITY	UNF.TOT.
				MG/L	MG/L		UG/L	MG/L	PARTIC.	EXTRACT.	FTU	MG/L
				AS N	AS N	AS PB	PHENOL	AS P	MG/L	MG/L		AS ZN
830227	1130	14004	0.315	0.220	0.003<	7.69	4.6	0.011	1.35	1	1.48	0.011
830314	1240	14022	0.315	0.230	0.004	7.93	5.4	0.005	14.100	1	0.96	0.010
830428	1415	14040	0.410	0.100	0.005	7.59	2.4	0.003<T	1.930	1	0.90	0.007
830530	1225	14061	0.350	0.160	0.003<	7.79	2.2	0.013	4.800	7	4.50	0.008
830620	1235	14076	0.275	0.160	0.003<	7.99	1.6	0.012	1.420	1	0.50	0.005
830726	1300	14097	0.255	0.230	0.003	8.20	1.0	0.005	0.160<T	0	0.85	0.001
830830	1430	14122	0.260	0.190	0.003<	8.00	0.2<T	0.005	1.910	0	0.50	0.002
830922	1650	14141	0.270	0.210	0.004	7.95	4.6	0.012	5.880	0	1.10	0.004
831028	1645	14159	0.285	0.170	0.003<	8.22	0.4<T	0.010	6.140	1	0.66	0.007
831127	1215	14178	0.300	0.180	0.025	7.97	1.4	0.007	3.540	0	1.20	0.020
			MAXIMUM	0.410	0.230	0.025	8.22	0.013	14.100	7	4.50	0.020
			ARITH MEAN	0.303	0.185	0.008	7.93	2.4<A	4.12 <A	1	1.26	0.007
			GEOM MEAN	0.300	0.180		7.93	1.6<A	2.51 <A		1.01	0.006
			MINIMUM	0.255	0.100	0.003	7.59	0.2	0.160	0	0.50	0.001
			STD DEV (GEOM *)	0.047	0.040	0.20	1.9<A	0.004<A	4.05 <A		1.18	0.005
			# SAMP IN STATISTICS	10	10	5	10	10	10	10	10	10
			% SAMP (EXCLUDED)			50						

## 1983 WATER QUALITY DATA REGION 5

89

B.O.W./ SITE: ST MARYS RIVER  
 SAMPLE POINT: AT HWY.NO.2 SAULT STE.MARIE MICHIGAN USA  
 STATION TYPE: RIVER

STATION ID: 13-0000-008-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON

STORET CODE: 02  
 002

LAT: 46 29 45.51 LONG: 084 23 21.07 U T M: 16 0700350.0 5152250.0 4 REGION: 05

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CCNAUR CYANIDE	CLIDUR	COND25	CUUT	DO	FEUT
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	ALUMINUM UNF.TOT. MG/L AS AL	AVAIL UNF.REAC MG/L AS HCN	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	DISSOLVED OXYGEN MG/L AS O	IRON UNF.TOT. MG/L AS FE
830226 1200	14007	0.30	0101	43.6	0.015	0.001<W	1.30	96.8	0.002	11.00	0.040<T
830314 1330	14025	0.30	0101	43.2	0.050	0.001<W	1.34	98.0	0.002	11.00	0.055
830429 1830	14043	0.30	0101	42.4	0.024	0.001<W	1.30	94.3	0.004	13.00	0.030<T
830530 1445	14064	0.30	0101	43.5	0.018	0.001<W	1.04	94.9	0.005	13.00	0.025
830620 1700	14078	0.30	0101	43.8	0.018	0.001<W	1.20	95.1	0.002	9.00	0.018<T
830726 1400	14099	0.30	0101	45.0	0.035	0.001<W	1.21	97.2	0.001<	8.00	0.045
830830 1500	14125	0.30	0101	43.3	0.021	0.001<W	1.21	90.7	0.001	9.00	0.030<T
830922 1620	14143	0.30	0101	46.2	0.022	0.001<T	1.71	99.2	0.003	11.00	0.250
831028 1720	14161	0.30	0101	43.8	0.018	0.001<W	1.29	93.5	0.001<	12.00	0.045
831117 1335	14180	0.30	0101	45.4	0.017	0.001<W	1.32	99.8	0.003	12.00	0.045
MAXIMUM		0.30		46.2	0.050	0.001	1.71	99.8	0.005	13.00	0.250
ARITH MEAN		0.30		44.0	0.024	0.001<A	1.29	95.9	0.003	10.90	0.058<A
GEOM MEAN				44.0	0.022	0.001<A	1.28	95.9		10.77	0.043<A
MINIMUM		0.30		42.4	0.015	0.001	1.04	90.7	0.001	8.00	0.018
STD DEV (GEOM *)				1.2	0.011	0.000<A	0.17	2.8		1.73	0.068<A
# SAMP IN STATISTICS		10		10	10	10	10	10	8	10	10
% SAMP (EXCLUDED)									20		
*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PHNOL	PP04FR
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	NICKEL UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PH	PHENOLS UNF-REAC UG/L PHENOL	P04 FIL.REAC MG/L AS P
830226 1200	14007	8		0.001<	0.004<T	0.290	0.120	0.003<	7.79	0.4<T	0.0005<T
830314 1330	14025	8	0.5	0.001<	0.006	0.305	0.170	0.003<	7.91	0.2<T	0.0010<T
830429 1830	14043	8	2.5	0.001<	0.026	0.300	0.180	0.003<	7.95	1.2	0.0010<T
830530 1445	14064	3	6.0	0.001<	0.014	0.290	0.120	0.018	7.85	0.2<T	0.0005<T
830620 1700	14078	8	12.0	0.002<	0.006	0.275	0.130	0.005	7.95	0.6<T	0.0005<W
830726 1400	14099	8	20.0	0.002<	0.006	0.255	0.110	0.003<	8.11	0.8	0.0010<T
830830 1500	14125	8	21.0	0.002<	0.006	0.265	0.120	0.003<	8.07	0.2<T	0.0005<T
830922 1620	14143	8	15.0	0.002<	0.080	0.260	0.200	0.003<	8.16	5.2	0.0015<T
831028 1720	14161	8	8.0	0.001<	0.010	0.275	0.230	0.003<	7.90	0.2<W	0.0010<T
831117 1335	14180	8	6.0	0.001<	0.010	0.280	0.120	0.012	7.89	0.4<T	0.0010<T
MAXIMUM			21.0		0.080	0.305	0.230	0.018	8.16	5.2	0.0015
ARITH MEAN			10.1		0.017<A	0.279	0.150	0.012	7.96	0.9<A	0.0008<A
GEOM MEAN			6.7		0.010<A	0.279	0.145		7.96	0.5<A	0.0008<A
MINIMUM			0.5		0.004	0.255	0.110	0.005	7.79	0.2	0.0005
STD DEV (GEOM *)			7.4		0.023<A	0.017	0.042		0.12	1.5<A	0.0003<A
# SAMP IN STATISTICS			9		10	10	10	3	10	10	10
% SAMP (EXCLUDED)								70			

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

90

B.O.W./ SITE: ST MARYS RIVER  
 SAMPLE POINT: AT HWY.NO.2 SAULT STE.MARIE MICHIGAN USA  
 STATION TYPE: RIVER

STATION ID: 13-0000-008-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON

STORET CODE: 02  
 002

LAT: 46 29 45.51 LONG: 084 23 21.07 U T M: 16 0700350.0 5152250.0 4 REGION: 05

*=INTERIM		TEST-NAME:	PPUT PHOSPHOR UNF.TOT. MG/L AS P	RSP RESIDUE PARTIC. MG/L	SOLEXT SOLVENT EXTRACT. MG/L	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER					
830226	1200	14007	0.005	2.28	0	1.80	0.006
830314	1330	14025	0.007	2.100	0	1.60	0.079
830429	1830	14043	0.007	1.640	0	0.83	0.003
830530	1445	14064	0.003<T	1.600	0	0.41	0.003
830620	1700	14078	0.010	1.110	0	0.30	0.001
830726	1400	14099	0.004<T	4.030	0	1.09	0.001
830830	1500	14125	0.002<T	0.640<T	0	0.40	0.001
830922	1620	14143	0.015	2.290	1	1.27	0.003
831028	1720	14161	0.006	1.820	0	0.54	0.003
831117	1335	14180	0.007	3.930	2	0.40	0.023
MAXIMUM			0.015	4.030	2	1.80	0.079
ARITH MEAN			0.007<A	2.14 <A	0	0.86	0.012
GEOM MEAN			0.006<A	1.89 <A		0.72	0.004
MINIMUM			0.002	0.640	0	0.30	0.001
STD DEV (GEOM *)			0.004<A	1.09 <A		0.55	0.024
# SAMP IN STATISTICS			10	10	10	10	10
% SAMP (EXCLUDED)							

## 1983 WATER QUALITY DATA REGION 5

91

B.O.W./ SITE: STOBIE CREEK  
 SAMPLE POINT: AT HWY 17  
 STATION TYPE: RIVER

STATION ID: 13-0000-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON

STORET CODE: 02  
 002

LAT: 46 20 38.90 LONG: 083 54 58.02

U T M: 17 0275600.0 5136200.0 4

REGION: 05

DISTANCE: 0.960

*=INTERIM TEST-NAME:			FWSADP	FGPROJ	ALK	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE			SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HOUR	SAMPLE	DEPTH	SUB-PROJ	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	
YYMMDD	LMT	NUMBER	M	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM
					AS CACO3	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	COND.
830428	1630	14054	0.30	0101	38.2	3.000	2.36	97.8	0.007	9.00	3.700	8
830529	1915	14057	0.30	0101	43.7	3.900	3.09	119.8	0.010	10.00	8.100	3
830617	1900	14088	0.30	0101	47.0	0.990	1.43	109.7	0.005	4.00	7.125	8
830724	1630	14109	0.30	0101	80.2	0.360	1.86	160.0	0.004	5.00	2.275	8
830823	1830	14114	0.30	0101	101.8	0.670	2.51	191.0	0.003	5.00	1.300	8
830921	1700	14135	0.30	0101	60.9	1.600	5.18	165.0	0.004	9.00	2.075	8
831021	1440	14152	0.30	0101	41.3	0.370	3.06	125.0	0.003	11.00	7.950	8
831126	1240	14172	0.30	0101	25.9	1.100	2.98	89.3	0.004	2.00	1.450	8

MAXIMUM	0.30		101.8	3.900	5.18	191.0	0.010	11.00	8.100	
ARITH MEAN	0.30		54.9	1.499	2.81	132.2	0.005	6.87	4.247	
GEOM MEAN			50.4	1.078	2.63	128.1	0.005	6.04	3.330	
MINIMUM	0.30		25.9	0.360	1.43	89.3	0.003	2.00	1.300	
STD DEV (GEOM *)			25.0	1.293	1.13	35.9	0.002	3.27	2.982	
* SAMP IN STATISTICS	8		8	8	8	8	8	8	8	
% SAMP (EXCLUDED)										

*=INTERIM TEST-NAME:			FWTEMP	NIUT	NNHTR	PBUT	PH	PHNQL	PP04FR	PPUT	RSP	TURB
SAMPLE			WATER	NICKEL	NH3-N	LEAD		PHENOLS	PO4	PHOSPHOR		
DATE	HOUR	SAMPLE	TEMP	UNF.TOT.	FIL.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	RESIDUE	TURB'ITY
YYMMDD	LMT	NUMBER	DEG.C	MG/L	MG/L	MG/L		UG/L	MG/L	MG/L	PARTIC.	FTU
				AS NI	AS N	AS PB	PH	PHENOL	AS P	AS P	MG/L	
830428	1630	14054	1.1	0.006	0.014	0.003<	6.83	0.4<T	0.0430	0.118	49.300	66.00
830529	1915	14057	10.0	0.007	0.016	0.003<	6.82	0.6<T	0.0725	0.315	186.000	97.00
830617	1900	14088	23.0	0.002<	0.004<T	0.003<	6.84	1.6	0.0385	0.130	46.500	33.00
830724	1630	14109	27.0	0.002<	0.100	0.003	7.33	0.6<T	0.0610	0.155	22.700	29.00
830823	1830	14114	22.5	0.002<	0.004<T	0.003<	7.29	0.4<T	0.0380	0.100	23.400	9.20
830921	1700	14135	11.5	0.002<	0.008	0.003<	7.06	0.6<T	0.0780	0.222	38.600	84.00
831021	1440	14152	6.5	0.001	0.010	0.003<	7.07	0.2<T	0.0270	0.285	262.000	104.00
831126	1240	14172	2.0	0.004	0.024	0.004	6.83	0.4<T	0.0280	0.088	30.200	30.00

MAXIMUM	27.0	0.007	0.100	0.004	7.33	1.6	0.0780	0.315	262.000	104.00
ARITH MEAN	12.9	0.004	0.022<A	0.003	7.01	0.6<A	0.0482	0.177	82.337	56.52
GEOM MEAN	8.3		0.013<A		7.01	0.5<A	0.0449	0.159	53.702	44.28
MINIMUM	1.1	0.001	0.004	0.003	6.82	0.2	0.0270	0.088	22.700	9.20
STD DEV (GEOM *)	10.0		0.032<A		0.21	0.4<A	0.0197	0.087	90.287	35.84
* SAMP IN STATISTICS	8	4	8	2	8	8	8	8	8	8
% SAMP (EXCLUDED)		50		75						

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

92

B.O.W./ SITE: STOBIE CREEK  
SAMPLE POINT: AT HWY 17  
STATION TYPE: RIVER

STATION ID: 13-0000-009-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON

STORET CODE: 02  
002

LAT: 46 20 38.90 LONG: 083 54 58.02 U T M: 17 0275600.0 5136200.0 4 REGION: 05 DISTANCE: 0.960

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830428	1630	14054	0.011
830529	1915	14057	0.018
830617	1900	14088	0.006
830724	1630	14109	0.012
830823	1830	14114	0.004
830921	1700	14135	0.006
831021	1440	14152	0.005
831126	1240	14172	0.011

MAXIMUM 0.018  
ARITH MEAN 0.009  
GEOM MEAN 0.008  
MINIMUM 0.004  
STD DEV (GEOM \*) 0.005  
# SAMP IN STATISTICS 8  
% SAMP (EXCLUDED)

## 1983 WATER QUALITY DATA REGION 5

93

B.O.W./ SITE: LITTLE CARP RIVER  
 SAMPLE POINT: LEIGH BAY AT SECOND LINE WEST  
 STATION TYPE: RIVER

STATION ID: 13-0000-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON

STORET CODE: 02  
 002

		LAT: 46 32 03.92		LONG: 078 27 27.95		U T M: 17 0694950.0 5156350.0 4		REGION: 05		DISTANCE: 3.360	
*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE HOUR		DEPTH	SUB-PROJ	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	
YYMMDD LMT		M	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM
		NUMBER		AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	COND.
830428	1210	14056	0101	12.6	0.180	1.02	51.4	0.001	11.00	0.670	8
830530	1030	14062	0101	12.2	0.670	0.82	47.9	0.002	12.00	1.230	3
830620	1035	14090	0101	28.5	0.170	1.50	78.7	0.002	8.00	0.750	8
830724	1530	14111	0101	35.2	0.430	2.72	99.2	0.003	9.00	0.575	8
830830	1620	14128	0101	37.7	0.140	2.64	96.5	0.001	10.00	0.785	8
830922	1815	14146	0101	34.4	0.070	3.39	99.7	0.001	11.00	0.770	8
831029	1400	14165	0101	27.5	0.073	2.73	93.3	0.002	12.00	0.540	8
831127	1100	14183	0101	14.3	0.200	1.37	66.5	0.001	12.00	0.475	8
MAXIMUM		0.30		37.7	0.670	3.39	99.7	0.003	12.00	1.230	
ARITH MEAN		0.30		25.3	0.242	2.02	79.1	0.002	10.62	0.724	
GEOM MEAN				23.0	0.183	1.81	76.3	0.001	10.52	0.696	
MINIMUM		0.30		12.2	0.070	0.82	47.9	0.001	8.00	0.475	
STD DEV (GEOM *)				10.7	0.206	0.96	21.5	0.001	1.51	0.234	
# SAMP IN STATISTICS		8		8	8	8	8	8	8	8	
% SAMP (EXCLUDED)											
*INTERIM TEST-NAME:		FWTEHP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
SAMPLE		WATER	NICKEL	NH3-N	LEAD		PHENOLS	PO4	PHOSPHOR	RESIDUE	
DATE HOUR		TEMP	UNF.TOT.	FIL.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	PARTIC.	TURB'ITY
YYMMDD LMT		DEG.C	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	MG/L	FTU
			AS NI	AS N	AS PB		PHENOL	AS P	AS P		
830428	1210	14056	0.001	0.004<T	0.003	6.85	0.6<T	0.0005<T	0.013	5.440	3.60
830530	1030	14062	0.002	0.002<T	0.003<	6.58	2.4	0.0010<T	0.060	31.000	11.50
830620	1035	14090	0.002<	0.002<T	0.003<	7.13	1.2	0.0010<T	0.026	5.310	3.00
830724	1530	14111	0.002<	0.026	0.007	7.39	0.2<T	0.0010<T	0.006	2.900	2.80
830830	1620	14128	0.002<	0.012	0.003<	7.00	1.4	0.0010<T	0.011	5.810	5.70
830922	1815	14146	0.002<	0.006	0.003<	7.37	0.8	0.0015<T	0.031	9.690	4.90
831029	1400	14165	0.001<	0.028	0.003<	7.22	0.2<T	0.0010<T	0.019	9.920	2.00
831127	1100	14183	0.003	0.010	0.004	6.79				3.080	2.10
MAXIMUM		21.5	0.003	0.028	0.007	7.39	2.4	0.0015	0.060	31.000	11.50
ARITH MEAN		12.7	0.002	0.011<A	0.005	7.04	1.0<A	0.0010<A	0.024	9.144	4.45
GEOM MEAN		10.9		0.007<A		7.04	0.7<A	0.0010<A	0.019	6.780	3.77
MINIMUM		3.0	0.001	0.002	0.003	6.58	0.2	0.0005	0.006	2.900	2.00
STD DEV (GEOM *)		6.4		0.010<A		0.29	0.8<A	0.0003<A	0.018	9.211	3.13
# SAMP IN STATISTICS		7	3	8	3	8	7	7	7	8	8
% SAMP (EXCLUDED)			62		62						

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

94

B.O.W./ SITE: LITTLE CARP RIVER  
SAMPLE POINT: LEIGH BAY AT SECOND LINE WEST  
STATION TYPE: RIVER

STATION ID: 13-0000-010-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON

STORET CODE: 02  
002

LAT: 46 32 03.92 LONG: 078 27 27.95 U T M: 17 0694950.0 5156350.0 4 REGION: 05 DISTANCE: 3.360

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830428	1210	14056	0.004
830530	1030	14062	0.005
830620	1035	14090	0.003
830724	1530	14111	0.007
830830	1620	14128	0.001
830922	1815	14146	0.001<
831029	1400	14165	0.012
831127	1100	14183	0.011

MAXIMUM 0.012  
ARITH MEAN 0.006  
GEOM MEAN  
MINIMUM 0.001

STD DEV (GEOM \*)  
# SAMP IN STATISTICS 7  
% SAMP (EXCLUDED) 12

## 1983 WATER QUALITY DATA REGION 5

95

B.O.W./ SITE: BIG CARP RIVER  
 SAMPLE POINT: AT HERKIMER STREET SAULT STE MARIE  
 STATION TYPE: RIVER FLOW GAUGE FED.02BF004

STATION ID: 13-0003-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BIG CARP RIVER

STORET CODE: 02  
 002  
 8640

LAT: 46 30 26.09 LONG: 084 26 59.67

U T M: 16 0695650.0 5153350.0 4

REGION: 05

DISTANCE: 1.127

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWFLOW
SAMPLE		SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	STREAM
DATE	HOUR	DEPTH	SUB-PROJ	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	FLOW
YYMMDD	LMT	M	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	M3
				AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	/S
830226	1400	14009	0101	27.4	0.400	12.40	120.0	0.003	12.00	1.040	0.280
830314	1420	14027	0101	14.7	0.780	6.05	77.2	0.004	11.00	0.950	1.340
830428	1150	14045	0101	14.7	0.210	2.47	60.8	0.003	10.00	0.520	0.759
830530	1050	14066	0101	14.5	1.300	1.67	56.2	0.004	10.00	1.840	5.560
830620	1055	14080	0101	28.7	0.240	2.34	82.1	0.004	7.00		0.209
830726	1500	14101	0101	45.2	0.150	2.87	110.3	0.004	7.00	0.615	0.044
830830	1600	14127	0101	46.0	0.170	4.60	110.4	0.004	7.00	1.150	0.046
830922	1835	14145	0101	35.4	0.480	9.78	118.8	0.001	8.00	1.240	0.255
831029	1430	14164	0101	23.3	0.120	4.42	90.1	0.001<	12.00	0.490	0.336
831127	1115	14182	0101	15.5	0.250	2.91	75.7	0.003	12.00	0.400	0.900
MAXIMUM		0.30		46.0	1.300	12.40	120.0	0.004	12.00	1.840	5.560
ARITH MEAN		0.30		26.5	0.410	4.95	90.2	0.003	9.60	0.916	0.973
GEOM MEAN				24.1	0.307	4.06	87.3		9.37	0.817	0.373
MINIMUM		0.30		14.5	0.120	1.67	56.2	0.001	7.00	0.400	0.044
STD DEV (GEOM *)				12.3	0.371	3.54	23.5		2.17	0.464	1.664
# SAMP IN STATISTICS		10		10	10	10	10	9	10	9	10
% SAMP (EXCLUDED)								10			

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP
SAMPLE		STREAM	WATER	NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR	RESIDUE
DATE	HOUR	COND.	TEMP	UNF.TOT.	FIL.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	PARTIC.
YYMMDD	LMT		DEG.C	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	MG/L
				AS NI	AS N	AS PB		PHENOL	AS P	AS P	
830226	1400	14009	4 8	0.002	0.054	0.009	7.19	0.8	0.0015<T	0.026	1.31
830314	1420	14027	8 4	0.003	0.006	0.005	6.72	0.6<T	0.0015<T	0.049	40.500
830428	1150	14045	8	0.001<	0.020	0.003<	6.82	1.0	0.0015<T	0.015	5.640
830530	1050	14066	3	0.002	0.006	0.003<	6.67	0.6<T	0.0050	0.105	73.900
830620	1055	14080	8	0.002<	0.004<T	0.004	7.02	1.6	0.0040	0.020	5.510
830726	1500	14101	8	0.002<	0.050	0.003<	7.18	2.0	0.0050	0.021	5.640
830830	1600	14127	8	0.002<	0.010	0.003<	7.09	0.2<T	0.0020<T	0.020	5.070
830922	1835	14145	8	0.002<	0.004<T	0.003<	7.39	0.8	0.0070	0.050	12.600
831029	1430	14164	8	0.001<	0.012	0.003<	7.19	0.2<W	0.0010<T	0.027	4.430
831127	1115	14182	4	0.001	0.020	0.009	6.80	0.6<T	0.0020<T	0.014	3.120
MAXIMUM			24.5	0.003	0.054	0.009	7.39	2.0	0.0070	0.105	73.900
ARITH MEAN			14.3	0.002	0.019<A	0.007	7.01	0.8<A	0.0030<A	0.035	15.77
GEOM MEAN			12.2		0.012<A		7.00	0.7<A	0.0025<A	0.028	7.56
MINIMUM			4.0	0.001	0.004	0.004	6.67	0.2	0.0010	0.014	1.31
STD DEV (GEOM *)			7.8		0.019<A		0.24	0.6<A	0.0020<A	0.028	23.39
# SAMP IN STATISTICS			7	4	10	4	10	10	10	10	10
% SAMP (EXCLUDED)				60		60					

( C O N T D )



## 1983 WATER QUALITY DATA REGION 5

96

B.O.W./ SITE: BIG CARP RIVER  
 SAMPLE POINT: AT HERKIMER STREET SAULT STE MARIE  
 STATION TYPE: RIVER FLOW GAUGE FED.02BF004

STATION ID: 13-0003-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BIG CARP RIVER

STORET CODE: 02  
 002  
 8640

LAT: 46 30 26.09 LONG: 084 26 59.67 U T M: 16 0695650.0 5153350.0 4 REGION: 05 DISTANCE: 1.127

*INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
SAMPLE			UNF.TOT.
DATE	HOUR	SAMPLE	TURB'ITY
YYMMDD	LMT	NUMBER	FTU
			MG/L
			AS ZN
830226	1400	14009	9.30
830314	1420	14027	7.10
830428	1150	14045	4.60
830530	1050	14066	32.00
830620	1055	14080	4.00
830726	1500	14101	8.50
830830	1600	14127	7.00
830922	1835	14145	18.70
831029	1430	14164	2.50
831127	1115	14182	2.60
MAXIMUM		32.00	0.070
ARITH MEAN		9.63	0.019
GEOM MEAN		7.00	0.010
MINIMUM		2.50	0.002
STD DEV (GEOM *)		9.16	0.022
# SAMP IN STATISTICS		10	10
% SAMP (EXCLUDED)			





## 1983 WATER QUALITY DATA REGION 5

99

B.O.W./ SITE: EAST DAVIGNON CREEK  
 SAMPLE POINT: NEAR MOUTH WEST OF ALGOMA STEEL  
 STATION TYPE: RIVER

STATION ID: 13-0008-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: EAST DAVIGNON CREEK

STORET CODE: 02  
 002  
 8600

LAT: 46 31 23.61 LONG: 084 22 49.38 U T M: 16 0700925.0 5155300.0 4 REGION: 05 DISTANCE: 0.483

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CCNAUR CYANIDE AVAIL	CLIDUR	COND25	CUUT	DO	FEUT
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	ALUMINUM UNF.TOT. MG/L AS AL	UNF.REAC MG/L AS HCN	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	DIVOLVED OXYGEN MG/L AS O	IRON UNF.TOT. MG/L AS FE
830226 1330	14008	0.30	0101	55.9	0.072	0.001<T	32.80	239.0	0.004	8.00	3.050
830314 1400	14026	0.30	0101	44.2	0.086	0.009	9.90	142.0	0.007	8.00	0.345
830429 1315	14044	0.30	0101	41.5	0.210	0.003<T	17.40	153.0	0.006	10.00	0.690
830530 1120	14065	0.30	0101	48.0	0.900	0.016	7.26	146.0	0.010	10.00	3.000
830620 1125	14079	0.30	0101	47.5	0.027	0.020	7.65	141.0	0.010	10.00	0.642
830726 1430	14100	0.30	0101	51.9	0.055	0.036	8.77	145.0	0.007	6.00	0.650
830830 1540	14126	0.30	0101	44.6	0.040	0.005	7.31	120.6	0.004	8.00	0.750
830922 1740	14144	0.30	0101	53.7	0.040	0.002<T	16.08	174.0	0.004	9.00	2.100
831029 1500	14162	0.30	0101	48.7	0.041	0.176	7.01	127.4	0.004	7.00	2.075
831127 1140	14181	0.30	0101	51.6	0.150	0.015	10.55	166.0	0.003	8.00	0.560
MAXIMUM		0.30		55.9	0.900	0.176	32.80	239.0	0.010	10.00	3.050
ARITH MEAN		0.30		48.8	0.162	0.028<A	12.47	155.4	0.006	8.40	1.386
GEOM MEAN				48.6	0.084	0.010<A	10.91	152.7	0.005	8.30	1.052
MINIMUM		0.30		41.5	0.027	0.001	7.01	120.6	0.003	6.00	0.345
STD DEV (GEOM *)				4.5	0.266	0.053<A	8.04	33.4	0.003	1.35	1.060
# SAMP IN STATISTICS		10		10	10	10	10	10	10	10	10
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N TOTAL	NNTKUR K'DAHL N TOTAL	PBUT	PH	PHNOL	PP04FR
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PH	PHENOLS UNF-REAC UG/L PHENOL	P04 FIL.REAC MG/L AS P
830226 1330	14008	8 9	9.0	0.010	0.010	0.560	0.280	0.003<	7.64	9.8	0.0070
830314 1400	14026	8	10.0	0.002	0.004<T	0.675	0.200	0.003<	7.46	15.0	0.0030
830429 1315	14044	8	12.0	0.002	0.012	0.305	0.250	0.012	6.99	1.0	0.0010<T
830530 1120	14065	3	12.0	0.003	0.008	0.455	0.650	0.004	7.28	3.8	0.0055<T
830620 1125	14079	8	19.0	0.002	0.004<T	0.595	0.230	0.003<	7.18	9.8	0.0005<W
830726 1430	14100	8	24.5	0.002<	0.450	0.295	0.630	0.003<	7.63	16.0	0.0080
830830 1540	14126	9	25.5	0.002<	0.002<T	0.620	0.350	0.005	6.99	16.6	0.0020<T
830922 1740	14144	8	17.5	0.002<	0.026	0.460	0.420	0.003<	7.45	0.4<T	0.0015<T
831029 1500	14162	8	15.0	0.002	0.620	0.310	0.850	0.009	8.03	25.0	0.0020<T
831127 1140	14181	8	8.5	0.001	0.990	0.385	0.210	0.005	7.86	27.8	0.1040

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

100

B.O.W./ SITE: EAST DAVIGNON CREEK  
 SAMPLE POINT: NEAR MOUTH WEST OF ALGOMA STEEL  
 STATION TYPE: RIVER

STATION ID: 13-0008-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: EAST DAVIGNON CREEK

STORET CODE: 02  
 002  
 8600

LAT: 46 31 23.61 LONG: 084 22 49.38 U T M: 16 0700925.0 5155300.0 4 REGION: 05 DISTANCE: 0.483

*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N TOTAL	NNTKUR K'DAHL N TOTAL	PBUT	PH	PHNOL	PP04FR	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	NICKEL UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PHENOLS UNF-REAC MG/L AS P	P04 FIL.REAC MG/L AS P	
MAXIMUM				25.5	0.010	0.990	0.675	0.850	0.012	8.03	27.8	0.1040
ARITH MEAN				15.3	0.003	0.213<A	0.466	0.407	0.007	7.45	12.5<A	0.0134<A
GEOM MEAN				14.2		0.027<A	0.446	0.358		7.44	7.3<A	0.0035<A
MINIMUM				8.5	0.001	0.002	0.295	0.200	0.004	6.99	0.4	0.0005
STD DEV (GEOM *)				6.2		0.352<A	0.141	0.227		0.35	9.4<A	0.0319<A
# SAMP IN STATISTICS				10	7	10	10	10	5	10	10	10
% SAMP (EXCLUDED)					30				50			

*=INTERIM TEST-NAME:		PPUT PHOSPHOR UNF.TOT. MG/L AS P	RSP RESIDUE PARTIC. MG/L	SOLEXT SOLVENT EXTRACT. MG/L	SOLEXT SOLVENT EXTRACT. MG/L	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN	
830226	1330	14008	0.043	14.07	1	1	20.00	0.014
830314	1400	14026	0.008	7.120		0	2.60	0.060
830429	1315	14044	0.026	7.260		1	3.80	0.079
830530	1120	14065	0.100	46.200		0	25.00	0.018
830620	1125	14079	0.016	3.580		0	1.80	0.014
830726	1430	14100	0.023	6.110		0	4.50	0.004
830830	1540	14126	0.024	3.540		0	3.00	0.005
830922	1740	14144	0.042	12.400		1	14.90	0.002
831029	1500	14162	0.030	17.000		0	5.40	0.014
831127	1140	14181	0.135	4.650		1	3.40	0.012
MAXIMUM		0.135	46.200	1	1	25.00	0.079	
ARITH MEAN		0.045	12.19	1	0	8.44	0.022	
GEOM MEAN		0.033	8.72			5.64	0.013	
MINIMUM		0.008	3.540	1	0	1.80	0.002	
STD DEV (GEOM *)		0.041	12.81			8.36	0.026	
# SAMP IN STATISTICS		10	10	1	10	10	10	
% SAMP (EXCLUDED)								

## 1983 WATER QUALITY DATA REGION 5

101

B.O.W./ SITE: EAST DAVIGNON CREEK  
 SAMPLE POINT: AT 4THLINE RD, SAULT STE MARIE  
 STATION TYPE: RIVER

STATION ID: 13-0008-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: EAST DAVIGNON CREEK

STORET CODE: 02  
 002  
 8600

LAT: 46 35 22.82 LONG: 085 40 34.94 U T M: 16 0601400.0 5160200.0 4 REGION: 05 DISTANCE: 6.276

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	FEUT	NIUT	NNHTFR
				ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	IRON	NICKEL	NH3-N
SAMPLE		SAMPLE	PROJECT	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	UNF.TOT.	UNF.TOT.	TOTAL
DATE	HR	DEPTH	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	FIL.REAC
YYMMDD	LMT	M	CODE	AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS FE	AS NI	AS N
830531		12310	0101	6.1	0.190	0.26	29.2	0.001<	0.265	0.001<	0.030
830714		12200	0101	14.8	0.049	0.35	39.3	0.014	0.060	0.002<	0.062
		MAXIMUM		14.8	0.190	0.35	39.3	0.014	0.265		0.062
		ARITH MEAN		10.4	0.119	0.30	34.2	0.014	0.162		0.046
		GEOM MEAN		9.5	0.096	0.30	33.9		0.126		0.043
		MINIMUM		6.1	0.049	0.26	29.2	0.014	0.060		0.030
		STD DEV (GEOM *)		6.2	0.100	0.06	7.1		0.145		0.023
		# SAMP IN STATISTICS	2	2	2	2	2	1	2		2
		% SAMP (EXCLUDED)						50			

*=INTERIM TEST-NAME:		PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB	ZNUT
		LEAD		PHENOLS	P04	PHOSPHOR			ZINC
SAMPLE		UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	RESIDUE	TURB'ITY	UNF.TOT.
DATE	HR	MG/L		UG/L	MG/L	MG/L	PARTIC.	FTU	MG/L
YYMMDD	LMT	AS PB	PH	PHENOL	AS P	AS P	MG/L		AS ZN
830531		0.003<	6.32	0.4<T	0.0010<T	0.019	6.830	2.40	0.005
830714		0.003<	6.38	0.2<W	0.0010<T	0.008	0.910	0.25	0.002
		MAXIMUM	6.38	0.4	0.0010	0.019	6.830	2.40	0.005
		ARITH MEAN	6.35	0.3<A	0.0010<A	0.013	3.870	1.32	0.003
		GEOM MEAN	6.35	0.3<A	0.0010<A	0.012	2.493	0.77	0.003
		MINIMUM	6.32	0.2	0.0010	0.008	0.910	0.25	0.002
		STD DEV (GEOM *)	0.04	0.1<A	0.0000<A	0.008	4.186	1.52	0.002
		# SAMP IN STATISTICS	2	2	2	2	2	2	2
		% SAMP (EXCLUDED)							

## 1983 WATER QUALITY DATA REGION 5

102

B.O.W./ SITE: FORT CREEK  
 SAMPLE POINT: AT MOUTH, SAULT STE MARIE  
 STATION TYPE: RIVER

STATION ID: 13-0009-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: FORT CREEK

STORET CODE: 02  
 002  
 8590

LAT: 46 30 56.23 LONG: 084 20 35.77 U T M: 16 0703800.0 5154550.0 4 REGION: 05 DISTANCE: 0.161

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HOUR	DEPTH	SUB-PROJ	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	
YYMMDD	LMT	NUMBER	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM
				AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	COND.
830227	1215	14005	0101	103.7	2.500	172.50	785.0	0.015	9.00	3.200	8
830428	1400	14041	0101	106.1	3.300	152.50	653.0	0.017	10.00	4.700	8
830620	1200	14093	0101	132.8	0.760	112.00	604.0	0.006	9.00	1.275	8
830830	1445	14123	0101	89.0	0.390	65.10	374.0	0.004	10.00	0.885	
831028	1800	14163	0101	133.8	1.100	110.40	630.0	0.019	11.00	1.150	8
831230	1530	14190	0101						14.00		4 8
MAXIMUM		0.30		133.8	3.300	172.50	785.0	0.019	14.00	4.700	
ARITH MEAN		0.30		113.1	1.610	122.50	609.2	0.012	10.50	2.242	
GEOM MEAN				111.7	1.219	116.19	592.4	0.010	10.38	1.812	
MINIMUM		0.30		89.0	0.390	65.10	374.0	0.004	9.00	0.885	
STD DEV (GEOM *)				19.6	1.237	41.69	148.8	0.007	1.87	1.653	
# SAMP IN STATISTICS		6		5	5	5	5	5	6	5	
% SAMP (EXCLUDED)											
*=INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
SAMPLE		WATER	NICKEL	TOTAL	LEAD		PHENOLS	P04	PHOSPHOR	RESIDUE	
DATE	HOUR	TEMP	UNF.TOT.	FIL.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	PARTIC.	TURB'ITY
YYMMDD	LMT	DEG.C	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	MG/L	FTU
			AS NI	AS N	AS PB		PHENOL	AS P	AS P		
830227	1215	14005	1.0	0.007	0.006	7.59	1.4	0.0170	0.097	53.1	67.00
830428	1400	14041	7.0	0.004	0.004<T	7.22	0.2<T	0.0265	0.170	104.000	85.00
830620	1200	14093	17.5	0.002<	0.004<T	7.66	0.6<T	0.0210	0.045	52.600	20.00
830830	1445	14123	24.0	0.002<	0.002<W	7.56	0.6<T	0.0210	0.100	22.500	6.40
831028	1800	14163	4.0	0.004	0.002<T	7.82	2.2	0.0020<T	0.060	35.400	4.60
MAXIMUM		24.0	0.007	0.006	0.054	7.82	2.2	0.0265	0.170	104.000	85.00
ARITH MEAN		10.7	0.005	0.004<A	0.025	7.57	1.0<A	0.0175<A	0.094	53.5	36.60
GEOM MEAN		6.5		0.003<A	0.017	7.57	0.7<A	0.0132<A	0.085	47.1	20.19
MINIMUM		1.0	0.004	0.002	0.005	7.22	0.2	0.0020	0.045	22.500	4.60
STD DEV (GEOM *)		9.7		0.002<A	0.022	0.22	0.8<A	0.0093<A	0.048	31.0	37.01
# SAMP IN STATISTICS		5	3	5	5	5	5	5	5	5	5
% SAMP (EXCLUDED)			40								

( CONTD )

## 1983 WATER QUALITY DATA REGION 5

103

B.O.W./ SITE: FORT CREEK  
SAMPLE POINT: AT MOUTH, SAULT STE MARIE  
STATION TYPE: RIVER

STATION ID: 13-0009-001-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: FORT CREEK

STORET CODE: 02  
002  
8590

LAT: 46 30 56.23 LONG: 084 20 35.77 U T M: 16 0703800.0 5154550.0 4 REGION: 05 DISTANCE: 0.161

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830227	1215	14005	0.053
830428	1400	14041	0.072
830620	1200	14093	0.016
830830	1445	14123	0.018
831028	1800	14163	0.080

MAXIMUM	0.080
ARITH MEAN	0.048
GEOM MEAN	0.039
MINIMUM	0.016
STD DEV (GEOM *)	0.030
# SAMP IN STATISTICS	5
% SAMP (EXCLUDED)	



## 1983 WATER QUALITY DATA REGION 5

104

B.O.W./ SITE: ROOT RIVER

SAMPLE POINT: AT HWY.NO.17 EAST OF SAULT STE MARIE

STATION TYPE: RIVER FLOW GAUGE FED 02CA002

STATION ID: 13-0011-001-02

MAJOR BASIN: GREAT LAKES

MINOR BASIN: LAKE HURON

TERM STREAM: ROOT RIVER

STORET CODE: 02

002

8570

LAT: 46 32 48.66 LONG: 084 13 06.53

U T M: 16 0713250.0 5158350.0 4

REGION: 05

DISTANCE: 1.287

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWFLOW
				ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	STREAM
SAMPLE DATE	HOUR	SAMPLE	PROJECT	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	FLOW
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	M3
			CODE	AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	/S
830227	1030	14001	0101	23.1	1.300	18.30	129.0	0.006	10.00	1.875	1.130
830314	1145	14019	0101	13.4	0.650	6.58	71.5	0.005	12.00	1.460	3.340
830428	1500	14037	0101	13.6	0.390	4.94	59.9	0.005	11.00	0.650	3.960
830617	2100	14092	0101	23.1	0.220	8.35	91.7	0.002	7.00	1.200	0.929
830823	2010	14119	0101	42.3	0.100	15.90	150.0	0.003	8.00	0.410	0.251
831029	1600	14166	0101	22.3	0.089	8.03	92.0	0.001	11.00	0.450	1.150
831230	1611	14188	0101						12.00		0.670

MAXIMUM		0.30		42.3	1.300	18.30	150.0	0.006	12.00	1.875	3.960
ARITH MEAN		0.30		23.0	0.458	10.35	99.0	0.004	10.14	1.007	1.633
GEOM MEAN				21.2	0.294	9.27	94.2	0.003	9.96	0.856	1.152
MINIMUM		0.30		13.4	0.089	4.94	59.9	0.001	7.00	0.410	0.251
STD DEV (GEOM *)				10.5	0.463	5.42	34.3	0.002	1.95	0.598	1.423
# SAMP IN STATISTICS		7		6	6	6	6	6	7	6	7
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PHNOL	PP04FR
				NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		PHENOLS	P04
SAMPLE DATE	HOUR	SAMPLE	STREAM	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		UNF-REAC	FIL.REAC
YYMMDD	LMT	NUMBER	COND.	MG/L	MG/L	MG/L	MG/L	MG/L		UG/L	MG/L
				AS NI	AS N	AS N	AS N	AS PB	PH	PHENOL	AS P
830227	1030	14001	4 8	0.003	0.004<T	0.635	0.370	0.031	7.04	0.8	0.0050
830314	1145	14019	8	0.008	0.006	0.520	0.410	0.066	7.08	0.6<T	0.0030
830428	1500	14037	8	6.0	0.001	0.004<T	0.370	0.003<	6.66	0.8	0.0020<T
830617	2100	14092	8	19.5	0.002<	0.002<T	0.395	0.003<	6.88	0.6<T	0.0020<T
830823	2010	14119	8	20.5	0.083	0.002<W	1.180	0.003<	7.13	0.2<T	0.0015<T
831029	1600	14166	8	4.0	0.001<	0.168	0.305	0.003<	6.97	0.2<W	0.0010<T
831230	1611	14188	4 8								

MAXIMUM		20.5	0.083	0.168	1.180	0.560	0.066	7.13	0.8	0.0050
ARITH MEAN		10.2	0.024	0.031<A	0.567	0.327	0.048	6.96	0.5<A	0.0024<A
GEOM MEAN		6.3		0.006<A	0.509	0.295		6.96	0.5<A	0.0021<A
MINIMUM		1.0	0.001	0.002	0.305	0.130	0.031	6.66	0.2	0.0010
STD DEV (GEOM *)		9.1		0.067<A	0.322	0.152		0.17	0.3<A	0.0014<A
# SAMP IN STATISTICS		5	4	6	6	6	2	6	6	6
% SAMP (EXCLUDED)			33				66			

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

105

B.O.W./ SITE: ROOT RIVER  
 SAMPLE POINT: AT HWY.NO.17 EAST OF SAULT STE MARIE  
 STATION TYPE: RIVER FLOW GAUGE FED 02CA002

STATION ID: 13-0011-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: ROOT RIVER

STORET CODE: 02  
 002  
 8570

LAT: 46 32 48.66 LONG: 084 13 06.53

U T M: 16 0713250.0 5158350.0 4

REGION: 05

DISTANCE: 1.287

*=INTERIM TEST-NAME:		PPUT	RSP	TURB	ZNUT
		PHOSPHOR			ZINC
		UNF.TOT.	RESIDUE		UNF.TOT.
SAMPLE		MG/L	PARTIC.	TURB'ITY	MG/L
DATE HOUR	SAMPLE	AS P	MG/L	FTU	AS ZN
YYMMDD LMT	NUMBER				
830227 1030	14001	0.051	7.86	25.00	0.034
830314 1145	14019	0.104	76.000	26.00	0.032
830428 1500	14037	0.022	13.400	9.60	0.011
830617 2100	14092	0.044	32.700	4.50	0.002
830823 2010	14119	0.011	2.830	4.00	0.001
831029 1600	14166	0.018	12.400	1.50	0.006
MAXIMUM		0.104	76.000	26.00	0.034
ARITH MEAN		0.042	24.20	11.77	0.014
GEOM MEAN		0.032	14.47	7.43	0.007
MINIMUM		0.011	2.830	1.50	0.001
STD DEV (GEOM *)		0.034	27.33	10.96	0.015
# SAMP IN STATISTICS		6	6	6	6
% SAMP (EXCLUDED)					

## 1983 WATER QUALITY DATA REGION 5

106

B.O.W./ SITE: ROOT RIVER  
 SAMPLE POINT: AT HWY.NO.17 NORTH OF SAULT STE MARIE  
 STATION TYPE: RIVER

STATION ID: 13-0011-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: ROOT RIVER

STORET CODE: 02  
 002  
 8570

LAT: 46 34 23.29 LONG: 084 19 15.19

U T M: 16 0705300.0 5160999.0 4

REGION: 05

DISTANCE: 13.840

*=INTERIM TEST-NAME:			FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE			SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HOUR	SAMPLE	DEPTH	SUB-PROJ	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	
YYMMDD	LMT	NUMBER	M	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM
					AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	COND.
830228	1130	14010	0.30	0101	19.8	0.110	15.70	110.0	0.001	12.00	0.640	4
830314	1500	14028	0.30	0101	8.3	0.250	9.40	72.9	0.005	10.00	0.255	8
830428	1220	14046	0.30	0101	13.4	0.140	5.48	51.9	0.002	11.00	0.215	8 3
830620	1000	14094	0.30	0101	24.0	0.065	12.80	111.7	0.001	10.00	0.425	8
830830	1730	14129	0.30	0101	162.3	0.024	58.50	486.0	0.009	9.00	0.070	8
831029	1330	14167	0.30	0101	24.7	0.064	15.09	112.5	0.002	11.00	0.440	8
831230	1650	14189	0.30	0101						13.00		4 8
MAXIMUM			0.30		162.3	0.250	58.50	486.0	0.009	13.00	0.640	
ARITH MEAN			0.30		42.1	0.109	19.49	157.5	0.003	10.86	0.341	
GEOM MEAN					24.4	0.085	14.46	116.8	0.002	10.79	0.278	
MINIMUM			0.30		8.3	0.024	5.48	51.9	0.001	9.00	0.070	
STD DEV (GEOM *)					59.2	0.080	19.49	162.8	0.003	1.35	0.201	
# SAMP IN STATISTICS			7		6	6	6	6	6	7	6	
% SAMP (EXCLUDED)												
*=INTERIM TEST-NAME:			FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
SAMPLE			WATER	NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR		
DATE	HOUR	SAMPLE	TEMP	UNF.TOT.	FIL.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	RESIDUE	TURB'ITY
YYMMDD	LMT	NUMBER	DEG.C	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	PARTIC.	FTU
				AS NI	AS N	AS PB		PHENOL	AS P	AS P	MG/L	
830228	1130	14010		0.001<	0.500	0.003<	7.34	2.0	0.0005<T	0.002<T	1.890	2.30
830314	1500	14028	3.0	0.007	0.126	0.004	6.65	4.0	0.0010<W	0.012	23.900	2.80
830428	1220	14046	8.0	0.001<	0.004<T	0.003<	6.50	1.6	0.0030	0.009	3.540	1.30
830620	1000	14094	18.0	0.002<	0.640	0.003<	7.14	2.0	0.0005<W	0.009	4.340	1.00
830830	1730	14129	21.5	0.002<	5.300	0.003<	7.63	1.6	0.0005<W	0.006	1.160	0.50
831029	1330	14167	4.0	0.006	0.690	0.003<	7.01	0.4<T	0.0010<T	0.016	2.310	0.77
MAXIMUM			21.5	0.007	5.300	0.004	7.63	4.0	0.0030	0.016	23.900	2.80
ARITH MEAN			10.9	0.006	1.210<A	0.004	7.04	1.9<A	0.0011<A	0.009<A	6.190	1.44
GEOM MEAN			8.2		0.290<A		7.03	1.6<A	0.0008<A	0.008<A	3.507	1.22
MINIMUM			3.0	0.006	0.004	0.004	6.50	0.4	0.0005	0.002	1.160	0.50
STD DEV (GEOM *)			8.4		2.023<A		0.42	1.2<A	0.0010<A	0.005<A	8.751	0.91
# SAMP IN STATISTICS			5	2	6	1	6	6	6	6	6	6
% SAMP (EXCLUDED)				66		83						

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

107

B.O.W./ SITE: ROOT RIVER  
SAMPLE POINT: AT HWY.NO.17 NORTH OF SAULT STE MARIE  
STATION TYPE: RIVER

STATION ID: 13-0011-002-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: ROOT RIVER

STORET CODE: 02  
002  
8570

LAT: 46 34 23.29 LONG: 084 19 15.19 U T M: 16 0705300.0 5160999.0 4 REGION: 05 DISTANCE: 13.840

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830228	1130	14010	0.009
830314	1500	14028	0.050
830428	1220	14046	0.008
830620	1000	14094	0.003
830830	1730	14129	0.009
831029	1330	14167	0.018

MAXIMUM 0.050  
ARITH MEAN 0.016  
GEOM MEAN 0.011  
MINIMUM 0.003  
STD DEV (GEOM \*) 0.017  
# SAMP IN STATISTICS 6  
% SAMP (EXCLUDED)

## 1983 WATER QUALITY DATA REGION 5

108

B.O.W./ SITE: GARDEN RIVER  
 SAMPLE POINT: HIGHWAY 17, GARDEN RIVER  
 STATION TYPE: RIVER

STATION ID: 13-0013-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: GARDEN RIVER

STORET CODE: 02  
 002  
 8550

LAT: 46 32 36.82 LONG: 084 09 28.79

U T M: 16 0717900.0 5158150.0 4

REGION: 05

DISTANCE: 2.253

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE HOUR		DEPTH	SUB-PROJ	TOTAL	UNF. TOT.	UNF. REAC	25C	UNF. TOT.	OXYGEN	UNF. TOT.	STREAM
YYMMDD LMT		M	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	COND.
				AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	
830227	1000	14000	0101	24.4	21.000	8.32	88.6	0.031	12.00	45.250	4 8
830314	1125	14018	0101	14.1	12.000	2.82	57.6	0.032	9.00	9.150	8 4
830428	1835	14036	0101	10.8	0.780	0.39	54.8	0.004	12.00	1.675	8
830617	2040	14091	0101	18.7	0.130	0.47	57.2	0.002	8.00	0.389	8
830823	2000	14118	0101	32.6	0.078	0.65	77.3	0.004	9.00	0.260	8
831028	1540	14156	0101	19.6	0.096	0.86	59.0	0.001<	11.00	0.225	8
831230	1555	14187	0101						12.00		4 8
MAXIMUM		0.30		32.6	21.000	8.32	88.6	0.032	12.00	45.250	
ARITH MEAN		0.30		20.0	5.681	2.25	65.7	0.015	10.43	9.491	
GEOM MEAN				18.8	0.759	1.16	64.6		10.30	1.584	
MINIMUM		0.30		10.8	0.078	0.39	54.8	0.002	8.00	0.225	
STD DEV (GEOM *)				7.7	8.855	3.11	13.9		1.72	17.854	
# SAMP IN STATISTICS		7		6	6	6	6	5	7	6	
% SAMP (EXCLUDED)								16			
*=INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
SAMPLE		NICKEL		TOTAL		LEAD		PHENOLS		PHOSPHOR	
DATE HOUR		UNF. TOT.	FIL. REAC	UNF. TOT.	UNF. REAC	UNF. TOT.	UNF. REAC	FIL. REAC	UNF. TOT.	RESIDUE	TURB.ITY
YYMMDD LMT		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	PARTIC.	FTU
		AS NI	AS N	AS PB	PH	PHENOL	AS P	AS P	AS P	MG/L	
830227	1000	0.038	0.036	0.023	6.64	0.4<T	0.0040	0.500		44.720	
830314	1125	0.028	0.010	0.140	6.70	0.4<T	0.0045	0.720		523.000	164.00
830428	1835	0.001	0.002<W	0.004	6.83	0.6<T	0.0040	0.079		61.200	30.00
830617	2040	0.002<	0.002<T	0.003	6.99	1.6	0.0020<T	0.021		6.700	2.00
830823	2000	0.002<	0.002<T	0.003<	7.24	0.2<T	0.0040	0.010		2.430	2.10
831028	1540	0.001<	0.030	0.003	7.58	0.2<W	0.0010<T	0.015		2.220	2.90
MAXIMUM		21.5	0.038	0.036	0.140	7.58	1.6	0.0045	0.720	523.000	164.00
ARITH MEAN		13.4	0.022	0.014<A	0.035	7.00	0.6<A	0.0032<A	0.224	106.712	40.20
GEOM MEAN		10.9		0.007<A		6.99	0.4<A	0.0029<A	0.067	19.303	9.03
MINIMUM		4.5	0.001	0.002	0.003	6.64	0.2	0.0010	0.010	2.220	2.00
STD DEV (GEOM *)		8.9		0.015<A		0.36	0.5<A	0.0014<A	0.308	205.429	70.24
# SAMP IN STATISTICS		4	3	6	5	6	6	6	6	6	5
% SAMP (EXCLUDED)			50		16						

( CONTD )

## 1983 WATER QUALITY DATA REGION 5

109

B.O.W./ SITE: GARDEN RIVER  
SAMPLE POINT: HIGHWAY 17, GARDEN RIVER  
STATION TYPE: RIVER

STATION ID: 13-0013-001-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: GARDEN RIVER

STORET CODE: 02  
002  
8550

LAT: 46 32 36.82 LONG: 084 09 28.79 U T M: 16 0717900.0 5158150.0 4 REGION: 05 DISTANCE: 2.253

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830227	1000	14000	0.120
830314	1125	14018	0.210
830428	1835	14036	0.010
830617	2040	14091	0.006
830823	2000	14118	0.001
831028	1540	14156	0.038

MAXIMUM 0.210  
ARITH MEAN 0.064  
GEOM MEAN 0.020  
MINIMUM 0.001  
STD DEV (GEOM \*) 0.084  
# SAMP IN STATISTICS 6  
% SAMP (EXCLUDED)

## 1983 WATER QUALITY DATA REGION 5

110

B.O.W./ SITE: DESBARATS RIVER  
 SAMPLE POINT: HIGHWAY 17, VILLAGE OF DESBARATS  
 STATION TYPE: RIVER

STATION ID: 13-0019-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: DESBARATS RIVER

STORET CODE: 02  
 002  
 8270

LAT: 46 20 35.88 LONG: 083 55 21.25 U T M: 17 0275100.0 5136125.0 4 REGION: 05 DISTANCE: 1.127

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALK	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
				ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
SAMPLE		SAMPLE	PROJECT	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	
DATE	HOUR	NUMBER	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM
YYMMDD	LMT		CODE	AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	COND.
830428	1600	14050	0101	17.1	0.330	1.74	58.4	0.002	8.00	1.530	8
830529	1935	14071	0101	45.5	2.100	3.61	97.9	0.006	8.00	2.230	3
830617	1915	14084	0101	20.9	0.420	1.01	60.3	0.003	7.00	1.600	8
830726	1640	14105	0101	40.0	0.200	1.98	92.4	0.002	6.00	1.450	8
830823	1820	14115	0101	47.3	0.220	2.80	101.2	0.004	7.00	0.570	8
830921	1640	14136	0101	54.4	0.190	7.79	138.0	0.002	9.00	0.515	8
831021	1500	14153	0101	50.4	1.500	7.50	157.0	0.007	10.00	2.550	8
831126	1300	14173	0101	21.7	0.540	1.65	66.5	0.003	10.00	0.535	8

MAXIMUM	0.30			54.4	2.100	7.79	157.0	0.007	10.00	2.550	
ARITH MEAN	0.30			37.2	0.687	3.51	96.5	0.004	8.12	1.372	
GEOM MEAN				34.1	0.459	2.76	90.9	0.003	8.01	1.155	
MINIMUM	0.30			17.1	0.190	1.01	58.4	0.002	6.00	0.515	
STD DEV (GEOM *)				14.9	0.715	2.67	36.0	0.002	1.46	0.782	
# SAMP IN STATISTICS	8			8	8	8	8	8	8	8	
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
				NH3-N							
			NICKEL	TOTAL	LEAD		PHENOLS	P04	PHOSPHOR		
SAMPLE		WATER	UNF.TOT.	FIL.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	RESIDUE	
DATE	HOUR	TEMP	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	PARTIC.	TURB'ITY
YYMMDD	LMT	DEG.C	AS NI	AS N	AS PB		PHENOL	AS P	AS P	MG/L	FTU
830428	1600	8.5	0.002	0.002<T	0.003<	6.67	1.4	0.0005<T	0.067	33.700	28.00
830529	1935	10.0	0.004	0.010	0.003	6.68	0.8	0.1040	0.240	73.300	71.00
830617	1915	23.0	0.002<	0.004<T	0.003<	6.59	2.4	0.0235	0.079	23.600	21.00
830726	1640	25.0	0.002<	0.104	0.003<	6.92	1.0	0.0260	0.090	19.300	15.00
830823	1820	24.0	0.002<	0.094	0.003<	7.03	0.8	0.0110	0.045	9.320	5.30
830921	1640	12.5	0.002<	1.14	0.003<	7.01	0.8	0.0110	0.048	6.100	6.00
831021	1500	7.0	0.004	0.008	0.003<	7.00	0.6<T	0.0435	0.102	17.900	38.00
831126	1300	2.0	0.002	0.040	0.003<	6.91	0.2<T	0.0060	0.053	8.020	11.00

MAXIMUM	25.0	0.004	1.14	0.003	7.03	2.4	0.1040	0.240	73.300	71.00
ARITH MEAN	14.0	0.003	0.18 <A	0.003	6.85	1.0<A	0.0282<A	0.090	23.905	24.41
GEOM MEAN	10.9		0.03 <A		6.85	0.8<A	0.0133<A	0.078	17.594	17.38
MINIMUM	2.0	0.002	0.002	0.003	6.59	0.2	0.0005	0.045	6.100	5.30
STD DEV (GEOM *)	8.8		0.39 <A		0.18	0.7<A	0.0335<A	0.064	21.959	21.88
# SAMP IN STATISTICS	8	4	8	1	8	8	8	8	8	8
% SAMP (EXCLUDED)		50		87						

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

111

B.O.W./ SITE: DESBARATS RIVER  
SAMPLE POINT: HIGHWAY 17, VILLAGE OF DESBARATS  
STATION TYPE: RIVER

STATION ID: 13-0019-002-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: DESBARATS RIVER

STORET CODE: 02  
002  
8270

LAT: 46 20 35.88 LONG: 083 55 21.25 U T M: 17 0275100.0 5136125.0 4 REGION: 05 DISTANCE: 1.127

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830428	1600	14050	0.008
830519	1935	14071	0.014
830617	1915	14084	0.010
830726	1640	14105	0.006
830823	1820	14115	0.005
830921	1640	14136	0.010
831021	1500	14153	0.012
831126	1300	14173	0.010

MAXIMUM 0.014  
ARITH MEAN 0.009  
GEOM MEAN 0.009  
MINIMUM 0.005  
STD DEV (GEOM \*) 0.003  
# SAMP IN STATISTICS 8  
% SAMP (EXCLUDED)



## 1983 WATER QUALITY DATA REGION 5

112

B.O.W./ SITE: THESSALON RIVER  
 SAMPLE POINT: AT MOUTH, SOUTH OF THESSALON  
 STATION TYPE: RIVER

STATION ID: 14-0003-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THESSALON RIVER

STORET CODE: 02  
 002  
 8210

LAT: 46 15 10.81 LONG: 083 33 34.86 U T M: 17 0302700.0 5125125.0 4 REGION: 05

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HOUR	DEPTH	SUB-PROJ	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	
YYMMDD	LMT	M	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM
				AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	COND.
830428	1650	14055	0101	19.5	0.370	0.80	61.8	0.004	11.00	0.950	8
830529	1820	14067	0101	32.6	0.580	0.76	66.9	0.004	9.00	1.050	3
830617	1845	14089	0101	30.6	0.440	0.64	66.2	0.002	5.00	0.601	8
830724	1600	14110	0101	37.1	0.240	1.10	90.5	0.002	6.00	0.495	8
830823	1800	14113	0101	36.2	0.160	0.93	85.7	0.004	8.00	0.425	8
830921	1720	14134	0101	36.0	0.130	1.15	90.1	0.001<	9.00	0.545	8
831021	1415	14151	0101	28.2	0.130	1.06	74.3	0.001<	11.00	0.475	8
831126	1215	14171	0101	26.4	0.670	0.99	72.3	0.003	12.00	0.890	8
MAXIMUM		0.30		37.1	0.670	1.15	90.5	0.004	12.00	1.050	
ARITH MEAN		0.30		30.8	0.340	0.93	76.0	0.003	8.87	0.679	
GEOM MEAN				30.2	0.283	0.91	75.2		8.54	0.643	
MINIMUM		0.30		19.5	0.130	0.64	61.8	0.002	5.00	0.425	
STD DEV (GEOM *)				6.0	0.210	0.18	11.3		2.47	0.245	
# SAMP IN STATISTICS		8		8	8	8	8	6	8	8	
% SAMP (EXCLUDED)								25			

*=INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB	
SAMPLE		WATER	NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR			
DATE	HOUR	TEMP	UNF.TOT.	TOTAL	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	RESIDUE	TURB*ITY	
YYMMDD	LMT	DEG.C	MG/L	MG/L	MG/L		UG/L	MG/L	MG/L	PARTIC.	FTU	
			AS NI	AS N	AS PB	PH	PHENOL	AS P	AS P	MG/L		
830428	1650	14055	10.0	0.001	0.004<T	0.004	6.92	1.0	0.0060	0.026	18.200	16.60
830529	1820	14067	12.0	0.001	0.004<T	0.003<	7.09	1.2	0.0040	0.030	37.300	16.00
830617	1845	14089	21.5	0.002<	0.002<T	0.003<	7.10	1.2	0.0040	0.024	13.300	4.50
830724	1600	14110	26.0	0.002<	0.048	0.006	7.58	0.2<T	0.0050	0.015	8.190	8.50
830823	1800	14113	23.0	0.002<	0.004<T	0.003	7.33	0.2<T	0.0020<T	0.019	5.270	3.20
830921	1720	14134	13.5	0.002<	0.008	0.003<	7.18	0.4<T	0.0100	0.059	6.980	7.10
831021	1415	14151	8.5	0.001<	0.014	0.003<	7.29	0.6<T	0.0030	0.024	8.510	3.20
831126	1215	14171	2.5	0.003	0.016	0.010	7.06	0.4<T	0.0035	0.046	22.300	11.90
MAXIMUM		26.0	0.003	0.048	0.010	7.58	1.2	0.0100	0.059	37.300	16.60	
ARITH MEAN		14.6	0.002	0.012<A	0.006	7.19	0.6<A	0.0047<A	0.030	15.006	8.87	
GEOM MEAN		12.0		0.008<A		7.19	0.5<A	0.0042<A	0.028	12.277	7.38	
MINIMUM		2.5	0.001	0.002	0.003	6.92	0.2	0.0020	0.015	5.270	3.20	
STD DEV (GEOM *)		8.1		0.015<A		0.20	0.4<A	0.0025<A	0.015	10.765	5.43	
# SAMP IN STATISTICS		8	3	8	4	8	8	8	8	8	8	
% SAMP (EXCLUDED)			62		50							

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

113

B.O.W./ SITE: THESSALON RIVER  
SAMPLE POINT: AT MOUTH, SOUTH OF THESSALON  
STATION TYPE: RIVER

STATION ID: 14-0003-001-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: THESSALON RIVER

STORET CODE: 02  
002  
8210

LAT: 46 15 10.81 LONG: 083 33 34.86 U T M: 17 0302700.0 5125125.0 4 REGION: 05

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830428	1650	14055	0.006
830529	1820	14067	0.005
830617	1845	14089	0.003
830724	1600	14110	0.004
830823	1800	14113	0.010
830921	1720	14134	0.001<
831021	1415	14151	0.049
831126	1215	14171	0.020

MAXIMUM 0.049  
ARITH MEAN 0.014  
GEOM MEAN  
MINIMUM 0.003  
STD DEV (GEOM \*)  
# SAMP IN STATISTICS 7  
% SAMP (EXCLUDED) 12

## 1983 WATER QUALITY DATA REGION 5

114

B.O.W./ SITE: BRIDGLAND RIVER  
 SAMPLE POINT: BELOW LITTLE RAPIDS  
 STATION TYPE: RIVER

STATION ID: 14-0003-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THESSALON RIVER

STORET CODE: 02  
 002  
 8210

LAT: 46 17 45.20 LONG: 083 33 49.06 U T M: 17 0302550.0 5129900.0 4 REGION: 05 DISTANCE: 6.400

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HOUR	DEPTH	SUB-PROJ	TOTAL	UNF. TOT.	UNF. REAC	25C	UNF. TOT.	OXYGEN	UNF. TOT.	STREAM
YYMMDD	LMT	NUMBER	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	COND.
				AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	
830428	1710	14053	0101	20.0	0.086	0.77	56.3	0.002	10.00	0.260	8
830529	1800	14058	0101	17.5	0.094	0.68	53.6	0.002	8.00	0.350	3
830617	1830	14087		29.5	0.088	0.85	76.5	0.002	7.00	0.357	8
830724	1530	14108		45.0	0.048	1.72	103.7	0.001	7.00	0.610	8
830823	1740	14112	0101	41.5	0.033	1.25	92.4	0.002	9.00	0.395	8
830921	1740	14133		33.5	0.044	1.16	82.9	0.001<	9.00	0.420	8
831021	1400	14150	0101	26.9	0.058	0.99	72.1	0.001<	12.00	0.460	8
831126	1200	14170	0101	19.0	0.110	0.72	57.9	0.003	12.00	0.480	8
MAXIMUM		0.30		45.0	0.110	1.72	103.7	0.003	12.00	0.610	
ARITH MEAN		0.30		29.1	0.070	1.02	74.4	0.002	9.25	0.416	
GEOM MEAN				27.5	0.065	0.97	72.5		9.07	0.405	
MINIMUM		0.30		17.5	0.033	0.68	53.6	0.001	7.00	0.260	
STD DEV (GEOM *)				10.4	0.028	0.35	18.1		1.98	0.104	
# SAMP IN STATISTICS		8		8	8	8	8	6	8	8	
% SAMP (EXCLUDED)								25			
*=INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PPO4FR	PPUT	RSP	TURB
SAMPLE		WATER	NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR		
DATE	HOUR	TEMP	UNF. TOT.	FIL. REAC	UNF. TOT.		UNF. REAC	FIL. REAC	UNF. TOT.	RESIDUE	TURB'ITY
YYMMDD	LMT	DEG.C	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	PARTIC.	FTU
			AS NI	AS N	AS PB		PHENOL	AS P	AS P	MG/L	
830428	1710	14053	0.001<	0.002<W	0.003<	6.91	1.2	0.0010<T	0.011	4.060	1.70
830529	1800	14058	0.001	0.012	0.004	7.14	0.4<T	0.0005<T	0.012	4.860	11.40
830617	1830	14087	0.002<	0.002<T	0.009	7.12	1.2	0.0010<T	0.017	6.930	0.85
830724	1530	14108	0.002<	0.030	0.015	7.56	0.6<T	0.015 <T	0.011	8.010	3.50
830823	1740	14112	0.003	0.030	0.003	7.35	0.2<W	0.0010<T	0.015	1.840	0.78
830921	1740	14133	0.002<	0.004<T	0.003<	7.18	0.2<T	0.0100	0.031	8.300	2.70
831021	1400	14150	0.001<	0.010	0.005	7.35	2.6	0.0010<T	0.021	5.400	2.20
831126	1200	14170	0.001	0.042	0.003<	6.90	0.4<T	0.0010<T	0.015	3.630	1.57
MAXIMUM		24.5	0.003	0.042	0.015	7.56	2.6	0.015	0.031	8.300	11.40
ARITH MEAN		13.6	0.002	0.016<A	0.007	7.19	0.8<A	0.004 <A	0.017	5.379	3.09
GEOM MEAN		10.6		0.010<A		7.19	0.6<A	0.002 <A	0.016	4.892	2.13
MINIMUM		1.5	0.001	0.002	0.003	6.90	0.2	0.0005	0.011	1.840	0.78
STD DEV (GEOM *)		8.0		0.015<A		0.23	0.8<A	0.006 <A	0.007	2.250	3.48
# SAMP IN STATISTICS		8	3	8	5	8	8	8	8	8	8
% SAMP (EXCLUDED)			62		37						

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

115

B.O.W./ SITE: BRIDGLAND RIVER  
SAMPLE POINT: BELOW LITTLE RAPIDS  
STATION TYPE: RIVER

STATION ID: 14-0003-003-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: THESSALON RIVER

STORET CODE: 02  
002  
8210

LAT: 46 17 45.20 LONG: 083 33 49.06 U T M: 17 0302550.0 5129900.0 4 REGION: 05 DISTANCE: 6.400

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830428	1710	14053	0.006
830529	1800	14058	0.003
830617	1830	14087	0.005
830724	1530	14108	0.011
830823	1740	14112	0.003
830921	1740	14133	0.001
831021	1400	14150	0.025
831126	1200	14170	0.007

MAXIMUM 0.025  
ARITH MEAN 0.008  
GEOM MEAN 0.005  
MINIMUM 0.001  
STD DEV (GEOM \*) 0.008  
# SAMP IN STATISTICS 8  
% SAMP (EXCLUDED)

## 1983 WATER QUALITY DATA REGION 5

116

B.O.W./ SITE: MISSISSAGI RIVER  
 SAMPLE POINT: AT MISSISSAGI CHUTE  
 STATION TYPE: RIVER FLOW GAUGE FED 02CC008

STATION ID: 14-0012-001-02,

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MISSISSAGI RIVER

STORET CODE: 02  
 002  
 8110

LAT: 45 17 44.57 LONG: 082 59 51.64 U T M: 17 0343360.0 5017525.0 4 REGION: 05 DISTANCE: 3.862

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	ASUT	CDUT	CLIDUR	COND25	CRUT	CUUT
				ALK	ALUMINUM	ARSENIC	CADMIUM	CHLORIDE	CONDUCT.	CHROMIUM	COPPER
SAMPLE DATE	HOUR	SAMPLE DEPTH	PROJECT SUB-PROJ	TOTAL MG/L	UNF.TOT. MG/L	UNF.TOT. MG/L	UNF.TOT. MG/L	UNF.REAC MG/L	25C UMHO/CM	UNF.TOT. MG/L	UNF.TOT. MG/L
YYMMDD	LMT	NUMBER	CODE	AS CAC03	AS AL	AS AS	AS CD	AS CL-	AT 25 C	AS CR	AS CU
830125	0800	12300	0101	18.4	0.069			0.63	55.8	0.003	0.003
830416	1130	12335	0101	19.5	0.330	0.001<	0.0002	0.98	55.1	0.001<	0.005
830529	1130	12367	0101	16.9	0.290	0.001<	0.0002<	1.55	51.4	0.001<	0.006
830624	1130	12399	0101	17.7	0.091	0.001<	0.0002<	0.78	54.8	0.001<	0.002
830725	1130	12431	0101	21.7	0.044	0.001<	0.0002<	0.49	62.0	0.001<	0.001
830829	1130	12463	0101	22.0	0.026			0.75	64.0	0.001<	0.002
830927	1200	12495	0101	24.2	0.054	0.001<	0.0002<	0.66	65.7	0.001<	0.001<
831107	1200	12527	0101	22.4	0.003<			0.80	64.6	0.001<	0.012
MAXIMUM		0.30		24.2	0.330		0.0002	1.55	65.7	0.003	0.012
ARITH MEAN		0.30		20.3	0.129		0.0002	0.83	59.2	0.003	0.004
GEOM MEAN				20.2				0.79	59.0		
MINIMUM		0.30		16.9	0.026		0.0002	0.49	51.4	0.003	0.001
STD DEV (GEOM *)				2.6				0.32	5.5		
# SAMP IN STATISTICS		8		8	7		1	8	8	1	7
% SAMP (EXCLUDED)					12		80			87	12

*INTERIM TEST-NAME:		DO	FEUT	FWFLOW	FWSTRC	FWTEMP	GACF	GACP	GBCF	GBCP	HGUT
		DISOLVED	IRON	STREAM			GROSS	GROSS	GROSS	GROSS	MERCURY
SAMPLE DATE	HOUR	OXYGEN	UNF.TOT.	FLOW		WATER	ALPHA CT	ALPHA CT	BETA CT	BETA CT	UNF.TOT.
YYMMDD	LMT	MG/L	MG/L	H3	STREAM	TEMP	FILTERED	UNDISSOL	FILTERED	UNDISSOL	UG/L
		AS O	AS FE	/S	COND.	DEG.C	MBQ/L	MBQ/L	MBQ/L	MBQ/L	AS HG
830125	0800		0.140	201.000	2		110	40<	60	40<	0.04<
830416	1130		0.555	248.000			40	40<	50	40<	
830529	1130		0.425	403.000	3	9.0	90	40<	50	40<	0.02U
830624	1130		0.411	171.000	8	20.0	40<	40<	40<	40<	0.09
830725	1130		0.155	54.300	8	24.0	180	40<	40	40<	0.01<
830829	1130		0.120	48.900	8	23	40<	40<	40	40<	0.01
830927	1200		0.175	49.600		17.0	60	40<	50	40<	
831107	1200	11.00	0.125	62.300	8	8.0	100	40<	40<	40<	0.04
MAXIMUM		11.00	0.555	403.000		24.0	180		60		0.09
ARITH MEAN		11.00	0.263	154.762		16.8	97		48		0.04
GEOM MEAN			0.220	113.829		15.4					
MINIMUM		11.00	0.120	48.900		8.0	40		40		0.01
STD DEV (GEOM *)			0.172	127.405		6.9					
# SAMP IN STATISTICS		1	8	8		6	6		6		4
% SAMP (EXCLUDED)							25		25		33

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

117

B.O.W./ SITE: MISSISSAGI RIVER  
 SAMPLE POINT: AT MISSISSAGI CHUTE  
 STATION TYPE: RIVER FLOW GAUGE FED 02CC008

STATION ID: 14-0012-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MISSISSAGI RIVER

STORET CODE: 02  
 002  
 8110

LAT: 45 17 44.57 LONG: 082 59 51.64 U T M: 17 0343360.0 5017525.0 4 REGION: 05 DISTANCE: 3.862

*=INTERIM TEST-NAME:		NIUT	NNHTFR NH3-N	NNOTFR	NNO2FR	NNO3FR	NNTKUR K'DAHL N	PBUT	PH	PHNOL	PP04FR
		NICKEL UNF.TOT. MG/L AS NI	TOTAL FIL.REAC MG/L AS N	NO2+NO3N FIL.REAC MG/L AS N	NO2-N FIL.REAC MG/L AS N	NO3-N FIL.REAC MG/L AS N	TOTAL UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB		PHENOLS UNF-REAC UG/L PHENOL	P04 FIL.REAC MG/L AS P
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER									
830125	0800	12300	0.001<	0.046							
830416	1130	12335	0.001	0.020	0.220	0.0250	0.195	0.260	0.003<	7.41	0.0110
830529	1130	12367	0.001<	0.010	0.105	0.0040	0.101	0.270	0.003<	7.580U	0.0070
830624	1130	12399	0.002	0.028	0.065	0.0030	0.062	0.320	0.003<	7.473U	0.0105
830725	1130	12431	0.001	0.020					0.003<	7.499	0.0005<T
830829	1130	12463	0.001	0.018					0.003<	7.615	0.0020<T
830927	1200	12495	0.001	0.042					0.003<	7.523	0.0010<T
831107	1200	12527	0.001<	0.018					0.003<	7.468	0.0050
									0.003<	7.637	0.0010<T
		MAXIMUM	0.002	0.046	0.220	0.0250	0.195	0.320		7.637	0.0110
		ARITH MEAN	0.001	0.025	0.130	0.0107	0.119	0.283		7.53	0.4<A
		GEOM MEAN		0.023	0.115	0.0067	0.107	0.282		7.53	0.3<A
		MINIMUM	0.001	0.010	0.065	0.0030	0.062	0.260		7.41	0.0028<A
		STD DEV (GEOM *)		0.013	0.080	0.0124	0.068	0.032		0.2	0.0005
		# SAMP IN STATISTICS	5	8	3	3	3	3		0.08	0.2<A
		% SAMP (EXCLUDED)	37							5	8

*=INTERIM TEST-NAME:		PPUT PHOSPHOR UNF.TOT. MG/L AS P	RA226F RADIUM 226 FIL. MBQ/L	RSF RESIDUE FILTERED MG/L	RSP RESIDUE PARTIC. MG/L	TURB TURB'ITY FTU	UU238 URANIUM 238 UG/L	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER						
830125	0800	12300	0.011	40<	1.590	1.29	3<	0.002
830416	1130	12335	0.015	40<	15.500	9.50	3<	0.002
830529	1130	12367	0.035	40<	12.200	3.50	3<	0.002
830624	1130	12399	0.008	40<	2.990	1.50	3<	0.001
830725	1130	12431	0.004	40<	1.620	1.25	3	0.001<
830829	1130	12463	0.006	40<	0.460<T	1.00	3<	0.001<
830927	1200	12495	0.026	40<	1.650	1.70	3<	0.001<
831107	1200	12527	0.007	40<	3.970	1.41	3<	0.001
		MAXIMUM	0.035	54.8	15.500	9.50	3	0.002
		ARITH MEAN	0.014	44.6	4.997<A	2.64	3	0.002
		GEOM MEAN	0.011	44.0	2.853<A	1.93		
		MINIMUM	0.004	33.4	0.460	1.00	3	0.001
		STD DEV (GEOM *)	0.011	8.1	5.633<A	2.88		
		# SAMP IN STATISTICS	8	5	8	8	1	5
		% SAMP (EXCLUDED)					87	37

## 1983 WATER QUALITY DATA REGION 5

118

B.O.W./ SITE: MISSISSAGI RIVER  
 SAMPLE POINT: AT DEAN LAKE ROAD BRIDGE  
 STATION TYPE: RIVER FLOW GAUGE FED 02CC008

STATION ID: 14-0012-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MISSISSAGI RIVER

STORET CODE: 02  
 002  
 8110

LAT: 46 14 40.05 LONG: 083 09 21.10 U T M: 17 0333800.0 5123250.0 4 REGION: 05 DISTANCE: 16.415

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALK	CDUT	COND25	CUUT	FWFLOW	HGUT	NNOTFR	NNOTFR		
SAMPLE DATE	YMMDD	TIME	NUMBER	DEPTH	PROJECT	TOTAL	UNF.TOT.	CONDUCT.	UNF.TOT.	STREAM	MERCURY	NO2+NO3N	NO2-N
DATE	YMMDD	TIME	NUMBER	DEPTH	SUB-PROJ	MG/L	MG/L	25C	MG/L	FLOW	UG/L	FIL.REAC	FIL.REAC
YMMDD	YMMDD	TIME	NUMBER	M	CODE	AS CAC03	AS CD	AT 25 C	AS CU	M3	AS HG	AS N	AS N
830404	1410		40800	0.30	0103	20.0		63.9		62.700	0.03<		
830411	1400		40801	0.30	0103	19.6			0.002	128.000		0.225	0.0020
830418	1400		40802	0.30	0103	18.4	0.0002<	53.5		476.000	0.01		
	1730		83118	0.30	0103	17.2	0.0002<	53.4	0.004	476.000	0.01	0.175	0.0035
830425	1430		40803	0.30	0103	16.2			0.002	197.000		0.210	0.0330
830502	1400		40804	0.30	0103	17.8	0.0002<	53.4		255.000	0.01<		
830509	1400		40805	0.30	0103	20.8			0.001<	332.000			
830516	1400		40806	0.30	0103	19.6	0.0002	55.2		196.000	0.02<		
830523	1530		40807	0.30	0103	19.4			0.001<	224.000		0.120	0.0055
830530	1400		40808	0.30	0103	20.8	0.0002<	59.2		484.000	0.02<		
830531	1100		40809	0.30	0103	18.1	0.0002<	54.7		525.000	0.02<		
	1820		40810	0.30	0103	16.7	0.0002<	50.8		525.000	0.02<		
830601	0945		40811	0.30	0103	17.2	0.0002<	51.3		636.000	0.02<		
	1515		40812	0.30	0103	20.7		50.9		636.000	0.02<		
830606	1340		40813	0.30	0103	27.6	0.0002<	50.7		657.000	0.02<		
830613	1330		40814		0103	15.6			0.003	317.000		0.075	0.0035
830620	1515		40815	0.30	0103	16.5	0.0002	50.3		198.000	0.02<		
830627	1330		40816	0.30	0103	18.3	0.0002<	55.5		118.000	0.01<		
830704	1400		40817	0.30	0103				0.002	88.900		0.075	0.0040
830718	1245		40818	0.30	0103	20.4	0.0002	61.9		88.600	0.03<		
830801	1330		40819	0.30	0103	24.0			0.001	45.000		0.080	0.0070
830815	1330		40820	0.30	0103	23.9	0.0002<	63.4		54.500	0.01<		
830829	1330		40821	0.30	0103	23.8			0.010	48.900		0.335	0.0030
830912	1315		40822	0.30	0103	25.3	0.0002<	68.7		49.900	0.01<		
830926	1330		40823	0.30	0103	31.4			0.004	49.400		0.085	0.0040
831010	1230		40824	0.30	0103	25.4	0.0002<	67.1		55.300	0.01<		
831024	1330		40825	0.30	0103	24.2			0.002	51.400		0.070	0.0030
831107	1330		40826	0.30	0103	23.6	0.0002	61.5		62.300	0.01<		
831121	1330		40827	0.30	0103	23.5			0.005	65.200		0.095	0.0030
			MAXIMUM	0.30		31.4	0.0002	68.7	0.010	657.000	0.01	0.335	0.0330
			ARITH MEAN	0.30		20.9	0.0002	57.0	0.003	244.900	0.01	0.140	0.0065
			GEOM MEAN			20.6		56.7		160.682		0.121	0.0044
			MINIMUM	0.30		15.6	0.0002	50.3	0.001	45.000	0.01	0.070	0.0020
			STD DEV (GEOM *)			3.8		6.0		212.004		0.086	0.0089
			# SAMP IN STATISTICS	28		28	4	18	10	29	2	11	11
			% SAMP (EXCLUDED)				75		16		88		

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

119

B.O.W./ SITE: MISSISSAGI RIVER  
 SAMPLE POINT: AT DEAN LAKE ROAD BRIDGE  
 STATION TYPE: RIVER FLOW GAUGE FED 02CC008

STATION ID: 14-0012-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MISSISSAGI RIVER

STORET CODE: 02  
 002  
 8110

LAT: 46 14 40.05 LONG: 083 09 21.10

U T M: 17 0333800.0 5123250.0 4

REGION: 05

DISTANCE: 16.415

*INTERIM TEST-NAME:		NO3FR	PBUT	PH	PP04FR	PPUT	RSP
		NO3-N	LEAD		P04	PHOSPHOR	
SAMPLE		FIL.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	RESIDUE
DATE	HOUR	MG/L	MG/L		MG/L	MG/L	PARTIC.
YYMMDD	LMT	AS N	AS PB	PH	AS P	AS P	MG/L
830404	1410	40800	0.004<	7.67		0.010	8.720
830411	1400	40801	0.223		0.0015<T		
830418	1400	40802	0.003<	7.66		0.028	29.100
	1730	83118	0.003<	7.43	0.0050<T	0.006	19.000
830425	1430	40803	0.177		0.0020<T		
830502	1400	40804	0.003<	7.50		0.013	6.530
830516	1400	40806	0.003<	7.34		0.014	4.750
830523	1530	40807	0.115		0.0005<W		
830530	1400	40808	0.003<	7.63		0.020	13.200
830531	1100	40809	0.003<	7.34		0.018	10.900
	1820	40810	0.003<	7.21		0.017	15.200
830601	0945	40811	0.003<	7.22		0.024	22.100
	1515	40812		7.28		0.017	20.800
830606	1340	40813	0.003<	7.18		0.019	12.200
830613	1330	40814	0.072		0.0010<T		
830620	1515	40815	0.003<	7.03		0.020	11.800
830627	1330	40816	0.003<	7.16		0.018	6.130
830704	1400	40817	0.071		0.0005<T		
830718	1245	40818	0.003<	7.37		0.009	2.350
830801	1330	40819	0.073		0.0020<T		
830815	1330	40820	0.003<	7.38		0.006	0.950
830829	1330	40821	0.332		0.0020<T		
830912	1315	40822	0.003<	7.25		0.012	12.900
830926	1330	40823	0.081				
831010	1230	40824	0.004	7.43		0.028	2.510
831024	1330	40825	0.067		0.0020<T		
831107	1330	40826	0.003<	7.34		0.010	9.740
831121	1330	40827	0.092		0.0010<T		
		MAXIMUM	0.332	7.67	0.0050	0.028	29.100
		ARITH MEAN	0.134	7.36	0.0017<A	0.016	11.604
		GEOM MEAN	0.115	7.35	0.0014<A	0.015	8.766
		MINIMUM	0.067	7.03	0.0005	0.006	0.950
		STD DEV (GEOM *)	0.084	0.18	0.0013<A	0.007	7.553
# SAMP IN STATISTICS	11		1	18	10	18	18
% SAMP (EXCLUDED)			94				



## 1983 WATER QUALITY DATA REGION 5

120

B.O.W./ SITE: MISSISSAGI RIVER  
 SAMPLE POINT: AT MOUTH  
 STATION TYPE: RIVER FLOW GAUGE FED.02CC008

STATION ID: 14-0012-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MISSISSAGI RIVER

STORET CODE: 02  
 002  
 8110

LAT: 46 10 34.86 LONG: 083 00 59.45 U T M: 17 0344350.0 5115400.0 4 REGION: 05 DISTANCE: 0.500

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	CLIDUR	COND25	FEUT	FWFLOW	FWSTRC	FWTEMP
SAMPLE DATE	YEAR	DEPTH	PROJECT	TOTAL	INFLECTN	CHLORIDE	CONDUCT.	IRON	STREAM	STREAM	WATER
YYMMDD	HOUR	M	SUB-PROJ	MG/L	POINT	UNF.REAC	25C	UNF.TOT.	FLOW	COND.	TEMP
YYMMDD	LMT	NUMBER	CODE	AS CACO3	AS CACO3	MG/L	AT 25 C	MG/L	M3		DEG.C
						AS CL-		AS FE	/S		
830125	0830	12301	0101		15.48		56.0		201.000	2	
830416	1200	12336	0101	15.9	13.83U		55.1		248.000	3	2.0
830624	1200	12400	0101	17.3	14.77		54.7		171.000	8	20.0
830725	1200	12432	0101		18.62		62.2		54.300	8	24.0
830829	1200	12464	0101	23.3	21.14		66.2		48.900	8	24.0
830927	1245	12496	0101	24.8		0.67	65.5	0.165	49.600		17.0
831107	1245	12528	0101	24.1	19.40		63.4		62.300	8	8.0
MAXIMUM		0.30		24.8	21.14	0.67	66.2	0.165	243.000		24.0
ARITH MEAN		0.30		21.1	17.21	0.67	60.4	0.165	119.300		15.8
GEOM MEAN				20.7	17.00		60.3		95.021		12.1
MINIMUM		0.30		15.9	13.83	0.67	54.7	0.165	48.900		2.0
STD DEV (GEOM *)				4.2	2.92		5.0		84.853		9.0
# SAMP IN STATISTICS		7		5	6	1	7	1	7		6
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		GACF	GACP	GBCF	GBCP	NNHTFR	NNOTFR	NNTKUR	PH	PP04FR	PPUT
SAMPLE DATE	YEAR	ALPHA CT	ALPHA CT	BETA CT	BETA CT	TOTAL	NO2+NO3N	TOTAL		PO4	PHOSPHOR
YYMMDD	HOUR	FILTERED	UNDISSOL	FILTERED	UNDISSOL	FIL.REAC	FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.
YYMMDD	LMT	MBQ/L	MBQ/L	MBQ/L	MBQ/L	MG/L	MG/L	MG/L		MG/L	MG/L
						AS N	AS N	AS N	PH	AS P	AS P
830125	0830	12301	80	40<	90	40<	0.012	0.130	0.240	7.09	0.006
830416	1200	12336	880	40<	40	40<	0.060	0.200	0.360	7.547U	0.021
830624	1200	12400	40<	40<	40<	40<	0.012	0.065	0.270	7.431	0.006
830725	1200	12432	70	40<	40	40<	0.008	0.065	0.230	7.607	0.007
830829	1200	12464	40<	40<	40<	40<	0.020	0.065	0.250	7.581	0.005
830927	1245	12496	70	40<	40	40<	0.036			7.400	0.024
831107	1245	12528	70	40<	40<	40<	0.022	0.085	0.220	7.626	0.007
MAXIMUM		880		90		0.060	0.200	0.360	7.626	0.0050	0.024
ARITH MEAN		234		52		0.024	0.102	0.262	7.47	0.0050	0.011
GEOM MEAN						0.020	0.092	0.258	7.47		0.009
MINIMUM		70		40		0.008	0.065	0.220	7.09	0.0050	0.005
STD DEV (GEOM *)						0.018	0.054	0.051	0.19		0.008
# SAMP IN STATISTICS		5		4		7	6	6	7	1	7
% SAMP (EXCLUDED)		28		42							

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

121

B.O.W./ SITE: MISSISSAGI RIVER  
 SAMPLE POINT: AT MOUTH  
 STATION TYPE: RIVER FLOW GAUGE FED.02CC008

STATION ID: 14-0012-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MISSISSAGI RIVER

STORET CODE: 02  
 002  
 8110

LAT: 46 10 34.86 LONG: 083 00 59.45 U T M: 17 0344350.0 5115400.0 4 REGION: 05 DISTANCE: 0.500

*=INTERIM TEST-NAME:		RA226F	RSP	SS04UR	TURB	UUUT	UU238
		RADIUM	RESIDUE	SULPHATE		URANIUM	
SAMPLE DATE	HOUR	226 FIL.	PARTIC.	UNF.REAC	TURB'ITY	UNF.TOT.	URANIUM
YYMMDD	LMT	NUMBER	MBQ/L	MG/L	FTU	MG/L	238
				AS S04		AS U	UG/L
830125	0830	12301	40<	7.54	1.50	0.001	3<
830416	1200	12336	40<	7.47	9.20	0.001	3<
830624	1200	12400	40<	6.70	1.00	0.001<	3<
830725	1200	12432	40<	6.91	1.25		3<
830829	1200	12464	40<	6.24	0.89		3<
830927	1245	12496	40<	1.660	1.40		3<
831107	1245	12528	40<	6.98	1.65		3<
MAXIMUM			1.660	7.54	9.20	0.001	
ARITH MEAN			1.660	6.97	2.41	0.001	
GEOM MEAN				6.96	1.66		
MINIMUM			1.660	6.24	0.89	0.001	
STD DEV (GEOM *)				0.49	3.00		
# SAMP IN STATISTICS			1	6	7	2	
% SAMP (EXCLUDED)						33	

## 1983 WATER QUALITY DATA REGION 5

122

B.O.W./ SITE: BLIND RIVER  
 SAMPLE POINT: AT HIGHWAY 17 BRIDGE BLIND RIVER  
 STATION TYPE: RIVER

STATION ID: 14-0014-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BLIND RIVER

STORET CODE: 02  
 002  
 8090

LAT: 45 17 10.97 LONG: 082 55 30.64

U T M: 17 0349020.0 5016350.0 4

REGION: 05

DISTANCE: 0.322

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI ALK INFLECTN	CLIDUR	COND25	FEUT	FWSTRC	FWTEMP	GACF
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	IRON UNF.TOT. MG/L AS FE	STREAM COND.	WATER TEMP DEG.C	GROSS ALPHA CT FILTERED MBQ/L
830125	0900	12302	0.30	0101			41.6		2		100
830416	1100	12334	0.30	0101	14.1	0.95	41.3	0.110	3	1.0	90
830624	1100	12398	0.30	0101	14.1	1.01	49.8	0.321	8	22.0	40<
830829	1100	12462	0.30	0101	14.6	0.95	54.5	0.100	8		40<
830927	1100	12494	0.30	0101	17.5	1.38	52.3	0.095		17.0	70
831107	1100	12526	0.30	0101	10.9		53.7		8	7.0	110
MAXIMUM		0.30			17.5	8.56	1.38	54.5		22.0	110
ARITH MEAN		0.30			14.2	7.58	1.07	48.9		11.7	92
GEOM MEAN					14.1	7.52	1.06	48.6		7.2	
MINIMUM		0.30			10.9	6.60	0.95	41.3		1.0	70
STD DEV (GEOM *)					2.3	1.39	0.21	6.0		9.5	
# SAMP IN STATISTICS		6			5	2	4	6	4	4	4
% SAMP (EXCLUDED)											33

*=INTERIM TEST-NAME:		GACP	GBCF	GBCP	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC	NNTKUR K'DAHL N TOTAL	PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	RA226F RADIUM 226 FIL.
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	AS P	AS P
830125	0900	12302	40<	70	40<	0.012	0.135	0.210	6.59		0.016
830416	1100	12334	40<	40	40<	0.024			7.273U		0.017
830624	1100	12398	40<	40<	40<	0.076			7.254	0.0020<T	0.015
830829	1100	12462	40<	40<	80	0.058			7.345	0.0035	0.013
830927	1100	12494	40<	80	40<	0.056			7.069	0.0030	0.026
831107	1100	12526	110	70	120	0.028	0.060	0.280	7.185		0.023
MAXIMUM		110	80	120	0.076	0.135	0.280	7.345	0.0035	0.026	
ARITH MEAN		110	65	100	0.042	0.097	0.245	7.12	0.0028<A	0.018	
GEOM MEAN					0.035	0.090	0.242	7.11	0.0028<A	0.018	
MINIMUM		110	40	80	0.012	0.060	0.210	6.59	0.0020	0.013	
STD DEV (GEOM *)					0.025	0.053	0.049	0.28	0.0008<A	0.005	
# SAMP IN STATISTICS		1	4	2	6	2	2	6	3	6	
% SAMP (EXCLUDED)		83	33	66							

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

123

B.O.W./ SITE: BLIND RIVER  
 SAMPLE POINT: AT HIGHWAY 17 BRIDGE BLIND RIVER  
 STATION TYPE: RIVER

STATION ID: 14-0014-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BLIND RIVER

STORET CODE: 02  
 002  
 8090

LAT: 45 17 10.97 LONG: 082 55 30.64

U T M: 17 0349020.0 5016350.0 4

REGION: 05

DISTANCE: 0.322

*INTERIM TEST-NAME:		RSP	SSO4UR	TURB	UUUT	UU238
		RESIDUE	SULPHATE		URANIUM	
SAMPLE		PARTIC.	UNF.REAC		UNF.TOT.	URANIUM
DATE	HOUR	MG/L	MG/L	TURB'ITY	MG/L	238
YYMMDD	LMT	MG/L	AS SO4	FTU	AS U	UG/L
830125	0900	12302	7.52	0.92	0.001<	3<
830416	1100	12334	6.400	1.40		3<
830624	1100	12398	3.830	1.50		3<
830829	1100	12462	1.630	0.85		3<
830927	1100	12494	0.470	1.06		3<
831107	1100	12526	9.76	1.10		3<
MAXIMUM		6.400	9.76	1.50		
ARITH MEAN		3.082	8.64	1.14		
GEOM MEAN		2.082	8.57	1.11		
MINIMUM		0.470	7.52	0.85		
STD DEV (GEOM *)		2.614	1.58	0.26		
# SAMP IN STATISTICS		4	2	6		
% SAMP (EXCLUDED)						

## 1983 WATER QUALITY DATA REGION 5

124

B.O.W./ SITE: SERPENT RIVER  
 SAMPLE POINT: AT OLD HWY.NO.17 E.OF HWYS.108&17 57 2  
 STATION TYPE: RIVER FLOW GAUGE FED 02CD001

STATION ID: 14-0019-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 12 40.09 LONG: 082 30 43.92

U T M: 17 0383350.0 5118400.0 4

REGION: 05

DISTANCE: 8.207

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	ALUT	CLIDUR	COND25	CUUT	DO	FEUT
				ALK	INFLECTN	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON
				TOTAL	POINT	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.
SAMPLE		SAMPLE	PROJECT	MG/L	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L
DATE	HOUR	NUMBER	SUB-PROJ	AS CAC03	AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE
YYMMDD	LMT		CODE								
830125		12305	0101	1.9	3.26	0.100	7.16	210.0	0.004		0.140
830416	0900	12331	0101	5.0	0.38U	0.140	5.28	128.0	0.004		0.305
830529	0900	12363	0101	5.9	2.04U	0.140	5.31	153.0	0.009	14.00	0.175
830624	0900	12395	0101	7.0	2.67	0.064	8.40	232.0	0.003	12.00	0.077
830725	0900	12427	0101	7.9	2.23	0.047	8.91	271.0	0.002	10.00	0.020<T
830829	0900	12459	0101	4.6	1.94	0.022	9.87	266.0	0.002	10.00	0.055
830927	0900	12491	0101	6.2	2.69	0.052	9.28	241.0	0.001<	10.00	0.050
831107	0900	12523	0101	6.9	2.14	0.042	6.16	198.0	0.001		0.075
MAXIMUM		0.30		7.9	3.26	0.140	9.87	271.0	0.009	14.00	0.305
ARITH MEAN		0.30		5.7	2.17	0.076	7.55	212.4	0.004	11.20	0.112<A
GEOM MEAN				5.3	1.90	0.064	7.35	206.3		11.09	0.084<A
MINIMUM		0.30		1.9	0.38	0.022	5.28	128.0	0.001	10.00	0.020
STD DEV (GEOM *)				1.9	0.84	0.045	1.82	51.2		1.79	0.093<A
# SAMP IN STATISTICS		8		8	8	8	8	8	7	5	8
% SAMP (EXCLUDED)									12		

*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	GACF	GACP	GBCF	GBCP	NIUT	NNHTFR	NNOTFR
		STREAM		WATER	GROSS	GROSS	GROSS	GROSS	NICKEL	NH3-N	NO2+NO3N
		FLOW		TEMP	ALPHA CT	ALPHA CT	BETA CT	BETA CT	UNF.TOT.	TOTAL	FIL.REAC
SAMPLE		M3	STREAM	DEG.C	FILTERED	UNDISSOL	FILTERED	UNDISSOL	MG/L	MG/L	MG/L
DATE	HOUR	/S	COND.		MBQ/L	MBQ/L	MBQ/L	MBQ/L	AS NI	AS N	AS N
YYMMDD	LMT										
830125		26.300	2		450	40<	210	40<	0.002	0.690	2.850
830416	0900	121.000	3	3.0	170	60	110	40<	0.002	0.024	1.680
830529	0900	12363	3	10.0	150	40<	140	40<	0.002	0.430	1.940
830624	0900	21.600	8	22.0	390	40<	280	40<	0.003	0.730	3.130
830725	0900	6.200	8	26.0	480	40<	280	40<	0.002<	0.760	3.700
830829	0900	2.150	8	26.0	310	40<	260	40<	0.002<		
830927	0900	1.830		18.0	310	40<	320	40<	0.002	0.230	3.120
831107	0900	13.100	8	8.8	190	40<	170	40<	0.002<	0.258	1.980
MAXIMUM		121.000		26.0	480	60	320		0.003	0.760	3.700
ARITH MEAN		28.910		16.3	306	60	221		0.002	0.446	2.629
GEOM MEAN		13.084		13.2	281		209			0.303	2.531
MINIMUM		1.830		3.0	150	60	110		0.002	0.024	1.680
STD DEV (GEOM *)		39.388		9.1	128		75			0.288	0.762
# SAMP IN STATISTICS		8		7	8	1	8		5	7	7
% SAMP (EXCLUDED)						87			37		

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

125

B.O.W./ SITE: SERPENT RIVER  
 SAMPLE POINT: AT OLD HWY.NO.17 E.OF HWYS.108&17 57 2  
 STATION TYPE: RIVER FLOW GAUGE FED 02CD001

STATION ID: 14-0019-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 12 40.09 LONG: 082 30 43.92 U T M: 17 0383350.0 5118400.0 4 REGION: 05 DISTANCE: 8.207

*=INTERIM TEST-NAME:		NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PHNOL PHENOLS UNF-REAC UG/L PHENOL	PP04FR P04 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P	RA226F RADIUM 226 FIL. MBQ/L	RSP RESIDUE PARTIC. MG/L	SS04UR SULPHATE UNF.REAC MG/L AS S04	TURB TURB'ITY FTU	
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	MG/L AS N	MG/L AS PB	PH							
830125		12305	1.010	0.003<	6.54	2.6	0.0005<T	0.006	60	0.530<T	65.20	1.01
830416	0900	12331	0.590	0.003<	5.876U	0.6<T	0.0030	0.011	40<	8.780	37.23	2.80
830529	0900	12363	0.630	0.003<	6.604U	0.8	0.0010<T	0.010	40<	2.740	47.26	1.40
830624	0900	12395	1.050	0.003<	6.677		0.0010<T	0.009	60	2.940	72.45	0.90
830725	0900	12427	1.030	0.003<	6.710		0.0005<W	0.006	90	1.330	87.70	0.72
830829	0900	12459	0.680	0.003<	6.457	0.2<W	0.0005<W	0.004<T	110		89.85	1.45
830927	0900	12491	0.490	0.003<	6.563	0.2<T	0.0005<T	0.010	70	0.690	81.00	0.93
831107	0900	12523	0.570	0.003<	6.599	0.2<W	0.0010<T	0.007	40<	0.520<T	54.08	4.00
MAXIMUM		1.050		6.710	2.6	0.0030	0.011	110	8.780	89.85	4.00	
ARITH MEAN		0.756		6.50	0.8<A	0.0010<A	0.008<A	78	2.504<A	66.85	1.65	
GEOM MEAN		0.726		6.50	0.5<A	0.0008<A	0.007<A		1.510<A	64.15	1.39	
MINIMUM		0.490		5.876	0.2	0.0005	0.004	60	0.520	37.23	0.72	
STD DEV (GEOM *)		0.233		0.27	0.9<A	0.0008<A	0.002<A		2.948<A	19.35	1.15	
# SAMP IN STATISTICS		8		8	6	8	8	5	7	8	8	
% SAMP (EXCLUDED)								37				

*=INTERIM TEST-NAME:		UUUT URANIUM UNF.TOT.	UU238 URANIUM 238 UG/L	ZNUT ZINC UNF.TOT. MG/L AS ZN	
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	MG/L AS U	MG/L AS ZN	
830125		12305	0.004	5	0.007
830416	0900	12331	0.003	3<	0.007
830529	0900	12363	0.002	3<	0.007
830624	0900	12395	0.001	4	0.009
830725	0900	12427	0.011	6	0.003
830829	0900	12459	0.002	3<	0.002
830927	0900	12491	0.001	3<	0.017
831107	0900	12523	0.002	3<	0.003
MAXIMUM		0.011	6	0.017	
ARITH MEAN		0.003	5	0.007	
GEOM MEAN		0.002		0.006	
MINIMUM		0.001	4	0.002	
STD DEV (GEOM *)		0.003		0.005	
# SAMP IN STATISTICS		8	3	8	
% SAMP (EXCLUDED)			62		

## 1983 WATER QUALITY DATA REGION 5

126

B.O.W./ SITE: DEPOT LAKE OUTLET  
 SAMPLE POINT: AT LAKE DEPOT 52 1  
 STATION TYPE: RIVER FLOW GAUGE MOE 02CD101

STATION ID: 14-0019-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 20 07.52 LONG: 082 32 22.78

U T M: 17 0381500.0 5132250.0 4

REGION: 05

DISTANCE: 46.509

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI ALK INFLECTN	CLIDUR	COND25	DO	FEUT	FWSTRC	FWTEMP	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	ALK MG/L AS CAC03	POINT MG/L AS CAC03	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	DISOLVED OXYGEN MG/L AS O	IRON UNF.TOT. MG/L AS FE	STREAM COND.	WATER TEMP DEG.C
830125		12306	0.30	0101	9.4	7.44	11.90	152.0		0.055	2	
830416	1300	12337	0.30	0101	9.3	5.59U	14.80	193.0			3	2.0
830529	1300	12369	0.30	0101	9.7	6.78U	12.51	144.0	14.00		3	10.0
830624	1300	12401	0.30	0101	12.0	8.11	12.10	160.0	10.00		8	23.0
830725	1300	12433	0.30	0101	13.3	9.25	13.70	176.0	11.00		8	26.0
830829	1300	12465	0.30	0101	10.6	8.03	14.80	180.0	10.00		8	25.0
830927	1300	12497	0.30	0101	14.9	9.81	15.19	186.0	10.00			16.0
831107	1300	12529	0.30	0101	17.3	10.12	17.64	221.0	11.00		8	9.0
MAXIMUM		0.30			17.3	10.12	17.64	221.0	14.00	0.055		26.0
ARITH MEAN		0.30			12.1	8.14	14.08	176.5	11.00	0.055		15.9
GEOM MEAN					11.8	8.01	13.97	175.0	10.92			12.3
MINIMUM		0.30			9.3	5.59	11.90	144.0	10.00	0.055		2.0
STD DEV (GEOM *)					2.9	1.55	1.94	24.7	1.55			9.2
# SAMP IN STATISTICS		8			8	8	8	8	6	1		7
% SAMP (EXCLUDED)												

*INTERIM TEST-NAME:		GACF	GACP	GBCF	GBCP	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC	NNTKUR K'DAHL N TOTAL	PH	PP04FR PO4 FIL.REAC	PPUT PHOSPHOR UNF.TOT.
SAMPLE DATE YYMMDD	HOUR LMT	GROSS ALPHA CT FILTERED MBQ/L	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	MG/L AS N	MG/L AS N	MG/L AS N	PH	MG/L AS P	MG/L AS P
830125		290	40<	90	40<	0.070	0.345	0.310	6.51	0.0190	0.031
830416	1300	200	40<	80	40<	0.004<T	0.760	0.350	7.121U	0.0120	0.027
830529	1300	50	40<	80	40<	0.068	0.235	0.350	7.151U	0.0010<T	0.014
830624	1300	150	40<	80	40<	0.078	0.145	0.460	7.159	0.0005<T	0.011
830725	1300	170	40<	70	40<	0.096	0.090	0.320	7.277	0.0005<W	0.006
830829	1300	40<	50	80	40<	0.058	0.035	0.810	6.904	0.0010<T	0.007
830927	1300	150	40<	40	40<	0.036	0.070	0.310	6.982	0.0010<T	0.015
831107	1300	50	40<	90	40<	0.116	0.330	0.410	7.259	0.0025<T	0.009
MAXIMUM		290	50	90		0.116	0.760	0.810	7.277	0.0190	0.031
ARITH MEAN		151	50	76		0.066<A	0.251	0.415	7.05	0.0047<A	0.015
GEOM MEAN				74		0.049<A	0.169	0.394	7.04	0.0019<A	0.013
MINIMUM		50	50	40		0.004	0.035	0.310	6.51	0.0005	0.006
STD DEV (GEOM *)				16		0.035<A	0.236	0.168	0.25	0.0070<A	0.009
# SAMP IN STATISTICS		7	1	8		8	8	8	8	8	8
% SAMP (EXCLUDED)		12	87								

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

127

B.O.W./ SITE: DEPOT LAKE OUTLET  
 SAMPLE POINT: AT LAKE DEPOT 52 1  
 STATION TYPE: RIVER FLOW GAUGE MOE 02CD101

STATION ID: 14-0019-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 20 07.52 LONG: 082 32 22.78

U T M: 17 0381500.0 5132250.0 4

REGION: 05

DISTANCE: 46.509

*=INTERIM TEST-NAME:		RA226F	RSP	SS04UR	TURB	UUUT	UU238
		RADIUM	RESIDUE	SULPHATE		URANIUM	
SAMPLE		226 FIL.	PARTIC.	UNF.REAC		UNF.TOT.	URANIUM
DATE	HR	226 FIL.	PARTIC.	MG/L	TURB'ITY	MG/L	238
YYMMDD	LMT	NUMBER	MG/L	AS S04	FTU	AS U	UG/L
830125		12306	40<	0.560<T	35.36	0.91	0.001
830416	1300	12337	40<	2.830	54.85	1.70	0.001<
830529	1300	12369	40<	1.340	39.15	1.88	0.002PNS
830624	1300	12401	40<	1.680	40.81	1.00	0.002
830725	1300	12433	40<	20.200	46.37	0.85	
830829	1300	12465	40<	1.850	46.87	1.25	
830927	1300	12497	40<	1.070	49.35	1.40	0.001
831107	1300	12529	40<		55.30		
MAXIMUM			20.200	55.30	1.88	0.002	5
ARITH MEAN			4.219<A	46.01	1.28	0.001	4
GEOM MEAN			2.031<A	45.50	1.23		
MINIMUM			0.560	35.36	0.85	0.001	3
STD DEV (GEOM *)			7.083<A	7.21	0.40		
# SAMP IN STATISTICS			7	8	7	4	2
% SAMP (EXCLUDED)						20	75



## 1983 WATER QUALITY DATA REGION 5

128

B.O.W./ SITE: PECORS LAKE OUTLET  
 SAMPLE POINT: AT PECORS LAKE 38 1  
 STATION TYPE: RIVER FLOW GAUGE FED 02CD004

STATION ID: 14-0019-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 22 26.74 LONG: 082 26 16.91 U T M: 17 0389400.0 5136400.0 4 REGION: 05 DISTANCE: 47.796

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP
				ALK	INFLECTN	CONDUCT.	COPPER	DISOLVED	IRON		
SAMPLE DATE	HOUR	SAMPLE	PROJECT	TOTAL	POINT	25C	UNF.TOT.	OXYGEN	UNF.TOT.		WATER
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	COND.	TEMP
		M	CODE	AS CAC03	AS CAC03	AT 25 C	AS CU	AS O	AS FE		DEG.C
830417	1830	12361	0101	7.4	0.40U	131.0	0.002		0.340	3	3.0
830531	1700	12393	0101	15.2	7.82U	254.0	0.003		0.060	3	13.0
830626	1700	12425	0101	11.3	8.43	292.0	0.001<	10.00	0.090	8	24.0
830831	1100	12489	0101	9.9	6.80	307.0	0.001	8.00	0.075	8	24.0
830929	1700	12521	0101	8.4	6.48	312.0	0.002	6.00	0.065		15.0
831109	1700	12553	0101	11.8	8.94	275.0	0.002	12.00	0.065	8	0.7
MAXIMUM		0.30		15.2	8.94	312.0	0.003	12.00	0.340		24.0
ARITH MEAN		0.30		10.7	6.48	261.8	0.002	9.00	0.116		13.3
GEOM MEAN				10.4	4.67	252.0		8.71	0.091		7.9
MINIMUM		0.30		7.4	0.40	131.0	0.001	6.00	0.060		0.7
STD DEV (GEOM *)				2.8	3.12	67.6		2.58	0.110		10.0
# SAMP IN STATISTICS		6		6	6	6	5	4	6		6
% SAMP (EXCLUDED)							16				

*INTERIM TEST-NAME:		GACF	GACP	GBCF	GBCP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH
		GROSS	GROSS	GROSS	GROSS	NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD	
SAMPLE DATE	HOUR	ALPHA CT	ALPHA CT	BETA CT	BETA CT	UNF.TOT.	TOTAL	FIL.REAC	UNF.REAC	UNF.TOT.	PH
YYMMDD	LMT	MBQ/L	MBQ/L	MBQ/L	MBQ/L	MG/L	MG/L	MG/L	MG/L	MG/L	
						AS NI	AS N	AS N	AS N	AS PB	
830417	1830	150	50	150	70	0.002<	0.032	1.740	0.730	0.003<	5.886U
830531	1700	360	60	230	50	0.002<	0.254	0.235	0.430	0.004	7.214U
830626	1700	350	90	290	40<	0.002<	0.560	1.330	0.740	0.003<	6.985
830831	1100	400	40<	390	40<	0.002	0.890	2.700	1.070	0.003<	7.203
830929	1700	370	50	290	40<	0.002<	0.810	2.520	1.040	0.003<	6.991
831109	1700	420	60	270	40<	0.002<	0.096	0.235	0.320	0.003<	7.273
MAXIMUM		420	90	390	70	0.002	0.890	2.700	1.070	0.004	7.273
ARITH MEAN		342	62	270	60	0.002	0.440	1.460	0.722	0.004	6.925
GEOM MEAN		325		260			0.261	0.977	0.660		6.908
MINIMUM		150	50	150	50	0.002	0.032	0.235	0.320	0.004	5.886
STD DEV (GEOM *)		97		79			0.367	1.073	0.306		0.523
# SAMP IN STATISTICS		6	5	6	2	1	6	6	6	1	6
% SAMP (EXCLUDED)			16		66	83				83	

( CONTD )

## 1983 WATER QUALITY DATA REGION 5

129

B.O.W./ SITE: PECORS LAKE OUTLET  
 SAMPLE POINT: AT PECORS LAKE 38 1  
 STATION TYPE: RIVER FLOW GAUGE FED 02CD004

STATION ID: 14-0019-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 22 26.74 LONG: 082 26 16.91

U T M: 17 0389400.0 5136400.0 4

REGION: 05

DISTANCE: 47.796

*=INTERIM TEST-NAME:		PPUT	RA226F	SS04UR	TURB	UUUT	UU238	ZNUT	
		PHOSPHOR		SULPHATE		URANIUM		ZINC	
SAMPLE		UNF.TOT.	RADIUM	UNF.REAC		UNF.TOT.	URANIUM	UNF.TOT.	
DATE	HOUR	MG/L	226 FIL.	MG/L	TURB*ITY	MG/L	238	MG/L	
YYMMDD	LMT	AS P	MBQ/L	AS S04	FTU	AS U	UG/L	AS ZN	
830417	1830	12361	0.015	40<	37.10	3.50	0.001	3<	0.009
830531	1700	12393	0.007	100	72.27	0.73	0.001	3<	0.007
830626	1700	12425	0.006	110	87.25	0.90	0.001<	3<	0.002
830831	1100	12489	0.003<T	120	99.65	1.05	0.002	3<	0.001
830929	1700	12521	0.007	130	92.40	1.04	0.002	3<	0.003
831109	1700	12553	0.006	110	78.35	0.70	0.001<	3<	0.003
MAXIMUM		0.015	130	99.65	3.50	0.002		0.009	
ARITH MEAN		0.007<A	114	77.84	1.32	0.001		0.004	
GEOM MEAN		0.007<A		74.34	1.10			0.003	
MINIMUM		0.003	100	37.10	0.70	0.001		0.001	
STD DEV (GEOM *)		0.004<A		22.21	1.08			0.003	
# SAMP IN STATISTICS		6	5	6	6	4		6	
% SAMP (EXCLUDED)			16			33			

## 1983 WATER QUALITY DATA REGION 5

130

B.D.W./ SITE: PECORS LAKE INLET  
 SAMPLE POINT: AT PECORS LAKE 37 1  
 STATION TYPE: RIVER

STATION ID: 14-0019-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 23 36.85 LONG: 082 29 54.14

U T M: 17 0384800.0 5138650.0 4

REGION: 05

DISTANCE: 54.716

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI ALK	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CACO3	INFLECTN POINT MG/L AS CACO3	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	DISOLVED OXYGEN MG/L AS O	IRON UNF.TOT. MG/L AS FE	STREAM COND.	WATER TEMP DEG.C
830417 1800	12360	0.30	0101	4.6	0.24U	133.0	0.001		0.325	3	3.0
830531 1600	12392	0.30	0101	10.4	6.93U	242.0	0.003	13.00	0.225	3	13.0
830626 1600	12424	0.30	0101	11.3	9.35	288.0	0.003		0.203	8	24.0
830831 1600	12488	0.30	0101	11.1	7.60	308.0	0.005		0.105	8	24.0
830929 1600	12520	0.30	0101	9.0	6.79	316.0	0.003		0.060		16.0
831109 1600	12552	0.30	0101	9.2	1.33	104.6	0.002		0.075	8	7.0
MAXIMUM		0.30		11.3	9.35	316.0	0.005	13.00	0.325		24.0
ARITH MEAN		0.30		9.3	5.37	231.9	0.003	13.00	0.165		14.5
GEOM MEAN				8.9	3.20	213.4	0.003		0.138		11.7
MINIMUM		0.30		4.6	0.24	104.6	0.001	13.00	0.060		3.0
STD DEV (GEOM *)				2.5	3.69	91.8	0.001		0.103		8.6
# SAMP IN STATISTICS		6		6	6	6	6	1	6		6
% SAMP (EXCLUDED)											
*=INTERIM TEST-NAME:		GACF	GACP	GBCF	GBCP	NIUT	NNHTFR NH3-N TOTAL	NNOTFR	NNTKUR K'DAHL N TOTAL	PBUT	PH
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	GROSS ALPHA CT FILTERED MBQ/L	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	NICKEL UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PH
830417 1800	12360	130	40	160	40<	0.002<	0.078	1.730	0.640	0.003<	5.721U
830531 1600	12392	240	60	210	40<	0.002<	0.184	0.245	0.350	0.003<	7.194U
830626 1600	12424	420	120	220	90	0.002<	0.296	0.530	0.600	0.003<	7.286
830831 1600	12488	270	60	270	40<	0.002	0.690	2.060	0.970	0.003<	7.171
830929 1600	12520	590	40<	380	40<	0.002<	0.780	2.390	0.970	0.003<	6.940
831109 1600	12552	150	40<	130	40<	0.002<	0.024	0.065	0.180	0.003<	6.393
MAXIMUM		590	120	380	90	0.002	0.780	2.390	0.970		7.286
ARITH MEAN		300	70	228	90	0.002	0.342	1.170	0.618		6.784
GEOM MEAN		261		215			0.195	0.645	0.532		6.760
MINIMUM		130	40	130	90	0.002	0.024	0.065	0.180		5.721
STD DEV (GEOM *)		176		89			0.320	1.008	0.320		0.613
# SAMP IN STATISTICS		6	4	6	1	1	6	6	6		6
% SAMP (EXCLUDED)			33		83	83					

( CONTD )

## 1983 WATER QUALITY DATA REGION 5

131

B.O.W./ SITE: PECORS LAKE INLET  
 SAMPLE POINT: AT PECORS LAKE 37 1  
 STATION TYPE: RIVER

STATION ID: 14-0019-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 23 36.85 LONG: 082 29 54.14 U T M: 17 0384800.0 5138650.0 4 REGION: 05 DISTANCE: 54.716

*INTERIM TEST-NAME:		PPUT PHOSPHOR UNF.TOT. MG/L AS P	RA226F RADIUM 226 FIL. MBQ/L	SSO4UR SULPHATE UNF.REAC MG/L AS S04	TURB TURB*ITY FTU	UUUT URANIUM UNF.TOT. MG/L AS U	UU238 URANIUM 238 UG/L	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER						
830417	1800	12360	0.015	40<	37.68	3.80	0.001<	3<
830531	1600	12392	0.007	90	67.30	2.80	0.001<	3<
830626	1600	12424	0.007	100	84.90	0.70	0.001<	3<
830831	1600	12488	0.004<T	110	99.55	1.01	0.001	3<
830929	1600	12520	0.004	130	97.50	1.19	0.001<	3<
831109	1600	12552	0.001<T	50	28.66	1.70	0.001<	3<
MAXIMUM		0.015	130	99.55	3.80	0.001		0.023
ARITH MEAN		0.006<A	96	69.26	1.87	0.001		0.007
GEOM MEAN		0.005<A		62.55	1.57			0.005
MINIMUM		0.001	50	28.66	0.70	0.001		0.002
STD DEV (GEOM *)		0.005<A		30.36	1.20			0.008
# SAMP IN STATISTICS		6	5	6	6	1		6
% SAMP (EXCLUDED)			16			83		

## 1983 WATER QUALITY DATA REGION 5

132

B.O.W./ SITE: CROTCH LAKE OUTLET  
 SAMPLE POINT: AT CROTCH LAKE 34 1  
 STATION TYPE: OUTFALL FLOW GAUGE MOE 02CD107

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STATION ID: 14-0019-006-09

STORET CODE: 02  
 002  
 8040

LAT: 46 25 04.80 LONG: 082 35 19.79

U T M: 17 0377900.0 5141500.0 4

REGION: 05

DISTANCE: 70.005

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	FWSTRC	FWTEMP	GACF	GACP	GBCF
				ALK	INFLECTN	CONDUCT.			GROSS	GROSS	GROSS
				TOTAL	POINT	25C		WATER	ALPHA CT	ALPHA CT	BETA CT
				MG/L	MG/L	UMHO/CM	STREAM	TEMP	FILTERED	UNDISSOL	FILTERED
				AS CAC03	AS CAC03	AT 25 C	COND.	DEG.C	MBQ/L	MBQ/L	MBQ/L
SAMPLE DATE	YMMDD LMT	YMMDD LMT	DEPTH	PROJECT							
YMMDD LMT	NUMBER	NUMBER	M	SUB-PROJ							
				CODE							
830416 1600	12343	0.30	0101	9.4	8.38U	135.0	3	3.0	600	110	300
830530 0900	12375	0.30	0101	11.8	7.53U	479.0	3	13.0	590	110	470
830625 0900	12407	0.30	0101	14.9	10.50	526.0	8	21.0	1100	80	530
830830 0900	12471	0.30	0101	17.3	14.75	635.0	8	25.0	640	50	480
830928 0900	12503	0.30	0101	13.2	10.27	660.0		18.0	1100	120	830
MAXIMUM		0.30		17.3	14.75	660.0		25.0	1100	120	830
ARITH MEAN		0.30		13.3	10.29	487.0		16.0	806	94	522
GEOM MEAN				13.0	10.01	427.4		13.0	772	90	495
MINIMUM		0.30		9.4	7.53	135.0		3.0	590	50	300
STD DEV (GEOM *)				3.0	2.79	210.5		8.5	269	29	193
# SAMP IN STATISTICS		5		5	5	5		5	5	5	5
% SAMP (EXCLUDED)											
*INTERIM TEST-NAME:		GBCP	NNHTFR	NNOTFR	NNTKUR	PH	PPUT	RA226F	SS04UR	TURB	UUUT
			NH3-N		K'DAHL N						
			TOTAL	NO2+NO3N	TOTAL		PHOSPHOR		SULPHATE		URANIUM
			FIL.REAC	FIL.REAC	UNF.REAC		UNF.TOT.		UNF.REAC		UNF.TOT.
			MG/L	MG/L	MG/L		MG/L	226 FIL.	MG/L	TURB'ITY	MG/L
			AS N	AS N	AS N	PH	AS P	MBQ/L	AS S04	FTU	AS U
SAMPLE DATE	YMMDD LMT	YMMDD LMT	NUMBER	NUMBER	NUMBER						
YMMDD LMT	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER						
830416 1600	12343	70	0.230	0.360	0.440	7.320U	0.010	150	33.15	2.50	0.001
830530 0900	12375	60	0.570	1.050	0.800	7.205U	0.006	340	187.00	5.40	0.004PNS
830625 0900	12407	40<	0.680	1.250	0.950	7.352	0.007	410	210.30	1.60	0.003
830830 0900	12471	40<	0.540	1.260	0.890	7.477	0.020	390	282.30	1.95	
830928 0900	12503	50	0.420	1.280	0.560	7.001	0.015	310	303.00	2.40	0.006
MAXIMUM		70	0.680	1.280	0.950	7.477	0.020	410	303.00	5.40	0.006
ARITH MEAN		60	0.488	1.040	0.728	7.271	0.012	320	203.15	2.77	0.003
GEOM MEAN			0.458	0.947	0.699	7.269	0.010	302	161.98	2.52	0.003
MINIMUM		50	0.230	0.360	0.440	7.001	0.006	150	33.15	1.60	0.001
STD DEV (GEOM *)			0.171	0.391	0.219	0.179	0.006	103	106.59	1.51	0.002
# SAMP IN STATISTICS		3	5	5	5	5	5	5	5	5	4
% SAMP (EXCLUDED)		40									

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

133

B.O.W./ SITE: CROTCH LAKE OUTLET  
SAMPLE POINT: AT CROTCH LAKE 34 1  
STATION TYPE: OUTFALL FLOW GAUGE MOE 02CD107

STATION ID: 14-0019-006-09

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SERPENT RIVER

STORET CODE: 02  
002  
8040

LAT: 46 25 04.80 LONG: 082 35 19.79

U T M: 17 0377900.0 5141500.0 4

REGION: 05

DISTANCE: 70.005

\*=INTERIM TEST-NAME: UU238

SAMPLE DATE	HOUR	SAMPLE YYMMDD LHT	NUMBER	URANIUM 238 UG/L
830416	1600		12343	4
830530	0900		12375	3<
830625	0900		12407	5
830830	0900		12471	3<
830928	0900		12503	3
			MAXIMUM	5
			ARITH MEAN	4
			GEOM MEAN	
			MINIMUM	3
			STD DEV (GEOM *)	
			# SAMP IN STATISTICS	3
			% SAMP (EXCLUDED)	40

## 1983 WATER QUALITY DATA REGION 5

134

B.O.W./ SITE: BUCKLES CREEK

SAMPLE POINT: AT HWY.NO 108 SOUTH OF ELLIOT LAKE 40 1

STATION TYPE: OUTFLOW FLOW GAUGE MOE 02CD102

STATION ID: 14-0019-007-09

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 22 25.61 LONG: 082 35 50.27

U T M: 17 0377150.0 5136600.0 4

REGION: 05

DISTANCE: 73.062

*=INTERIM TEST-NAME:			FWSADP	FGPROJ	ALKT	ALKTI	COND25	FWSTRC	FWTEMP	GACF	GACP	GBCF
SAMPLE DATE	HOUR	SAMPLE NUMBER	SAMPLE DEPTH	PROJECT SUB-PROJ	ALK TOTAL	ALK INFLECTN	CONDUCT. 25C		WATER TEMP	GROSS ALPHA CT	GROSS ALPHA CT	GROSS BETA CT
YYMMDD	LMT		M	CODE	MG/L	MG/L	UMHO/CM	STREAM COND.	DEG.C	FILTERED MBQ/L	UNDISSOL MBQ/L	FILTERED MBQ/L
830125	1200	12308	0.30	0101		9.80	926.0	2		270	210	340
830416	1330	12338	0.30	0101	5.5	-0.23U	359.0	3	2.0	1300	210	740
830529	1400	12370	0.30	0101	12.9	-0.26U	940.0	3	11.0	550	100	480
830624	1400	12402	0.30	0101	15.3	10.13	453.0	8	25.0	500	310	450
830829	1400	12466	0.30	0101	9.0	6.17	1840.0	8	24.0	1000	60	720
830927	1400	12498	0.30	0101	13.1	10.02	2060.0		16.0	1200	40<	1100
831107	1400	12530	0.30	0101	16.5		1370.0	8	8.0	670	310	300
MAXIMUM			0.30		16.5	10.13	2060.0		25.0	1300	310	1100
ARITH MEAN			0.30		12.0	5.94	1135.4		14.3	784	200	590
GEOM MEAN					11.3		957.0		10.9	694		537
MINIMUM			0.30		5.5	-0.26	359.0		2.0	270	60	300
STD DEV (GEOM *)					4.1		652.8		9.1	387		282
# SAMP IN STATISTICS			7		6	6	7		6	7	6	7
% SAMP (EXCLUDED)											14	
*=INTERIM TEST-NAME:			GBCP	NNHTFR	NNOTFR	NNTKUR	PH	PPUT	RA226F	SS04UR	TURB	UUUT
SAMPLE DATE	HOUR	SAMPLE NUMBER	GROSS BETA CT	NH3-N TOTAL	NO2+NO3N	K'DAHL N TOTAL		PHOSPHOR		SULPHATE		URANIUM
YYMMDD	LMT		UNDISSOL	FIL.REAC	FIL.REAC	UNF.REAC	PH	UNF.TOT.	RADIUM	UNF.REAC	TURB'ITY	UNF.TOT.
YYMMDD	LMT		MBQ/L	MG/L	MG/L	MG/L		MG/L	226 FIL.	MG/L	FTU	MG/L
				AS N	AS N	AS N		AS P	MBQ/L	AS S04		AS U
830125	1200	12308	140	1.000	4.250	1.650	6.91	0.048	100	474.60	8.40	0.005
830416	1330	12338	120	0.850	0.505	1.060	5.320U	0.022	40	158.15	10.30	0.002
830529	1400	12370	70	1.780	3.180	1.900	5.242U	0.018	180	478.00	5.80	0.005PNS
830624	1400	12402	140	0.040	1.270	0.350	6.680	0.025	320	199.80	3.00	0.003
830829	1400	12466	40<	5.400	4.230	5.400	6.974	0.018	140	1173.50	0.95	
830927	1400	12498	40<		5.040	5.050	7.147	0.012	140	1352.00	1.19	0.006
831107	1400	12530	160	4.610	2.880	4.650	7.23	0.017	180	700.50	4.70	
MAXIMUM			160	5.400	5.040	5.400	7.23	0.048	320	1352.00	10.30	0.006
ARITH MEAN			126	2.280	3.051	2.866	6.50	0.023	157	648.08	4.91	0.004
GEOM MEAN				1.071	2.452	2.041	6.45	0.021	135	501.40	3.61	0.004
MINIMUM			70	0.040	0.505	0.350	5.242	0.012	40	158.15	0.95	0.002
STD DEV (GEOM *)				2.196	1.657	2.097	0.85	0.012	87	460.86	3.54	0.002
# SAMP IN STATISTICS			5	6	7	7	7	7	7	7	7	5
% SAMP (EXCLUDED)			28									

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

135

B.O.W./ SITE: BUCKLES CREEK  
SAMPLE POINT: AT HWY.NO 108 SOUTH OF ELLIOT LAKE 40 1  
STATION TYPE: OUTFLOW FLOW GAUGE MOE 02CD102

STATION ID: 14-0019-007-09

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SERPENT RIVER

STORET CODE: 02  
002  
8040

LAT: 46 22 25.61 LONG: 082 35 50.27 U T M: 17 0377150.0 5136600.0 4 REGION: 05 DISTANCE: 73.062

\*=INTERIM TEST-NAME: UU238

SAMPLE		URANIUM	
DATE	HOUR	SAMPLE	238
YYMMDD	LMT	NUMBER	UG/L

830125	1200	12308	3<
830416	1330	12338	3<
830529	1400	12370	3<
830624	1400	12402	3<
830829	1400	12466	10
830927	1400	12498	12
831107	1400	12530	6

MAXIMUM 12  
ARITH MEAN 9

GEOM MEAN  
MINIMUM 6

STD DEV (GEOM \*)

\* SAMP IN STATISTICS 3  
% SAMP (EXCLUDED) 57



## 136

STATION ID: 14-0019-009-02

STORET CODE: 02  
002  
8040

**DISTANCE: 78.051**

[illegible]

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

137

B.O.W./ SITE: SHERIFF CREEK  
SAMPLE POINT: AT HIGHWAY NO 108 ELLIOT LAKE 45 1  
STATION TYPE: RIVER

STATION ID: 14-0019-009-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SERPENT RIVER

STORET CODE: 02  
002  
8040

LAT: 46 24 09.12 LONG: 082 39 49.80 U T M: 17 0372100.0 5139900.0 4 REGION: 05 DISTANCE: 78.051

\*=INTERIM TEST-NAME: UU238

SAMPLE DATE	HOUR	SAMPLE NUMBER	URANIUM 238 UG/L
830125	1430	12312	13
830416	1530	12342	3<
830529	1630	12374	10
830624	1630	12406	18
830927	1630	12502	73
831107	1630	12534	49
		MAXIMUM	73
		ARITH MEAN	33
		GEOM MEAN	
		MINIMUM	10
		STD DEV (GEOM *)	
		# SAMP IN STATISTICS	5
		% SAMP (EXCLUDED)	16

## 1983 WATER QUALITY DATA REGION 5

138

B.O.W./ SITE: ROCHESTER CREEK  
 SAMPLE POINT: NEAR INLET TO QUIRKE LAKE  
 STATION TYPE: RIVER FLOW GAUGE FED 02CD005

STATION ID: 14-0019-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKES HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 29 57.97 LONG: 082 31 24.36 U T M: 17 0383100.0 5150450.0 4 REGION: 05 DISTANCE: 79.660

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI ALK INFLECTN	COND25	FWFLOW	FWSTRC	FWTEMP	GACF	GACP
SAMPLE DATE HOUR	SAMPLE NUMBER	SAMPLE DEPTH H	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	POINT MG/L AS CAC03	CONDUCT. 25C UMHO/CM AT 25 C	STREAM FLOW M3 /S	STREAM COND.	WATER TEMP DEG.C	GROSS ALPHA CT FILTERED MBQ/L	GROSS ALPHA CT UNDISSOL MBQ/L
830417 1430	12356	0.30	0101	6.1	2.80U	32.9	13.200	2	2.0	480	40<
830626 1130	12420	0.30	0101	11.9	4.92	34.9	0.548	8	23.0	320	60
830929 1130	12516	0.30	0101	7.4	4.73	42.0	0.046		17.0	80	50
831109 1130	12548	0.30	0101	7.2	4.05	37.5	0.870	8	8.0	90	40<
MAXIMUM		0.30		11.9	4.92	42.0	13.200		23.0	480	60
ARITH MEAN		0.30		8.1	4.12	36.8	3.666		12.5	242	55
GEOM MEAN				7.9	4.03	36.7	0.734		8.9	182	
MINIMUM		0.30		6.1	2.80	32.9	0.046		2.0	80	50
STD DEV (GEOM *)				2.6	0.96	3.9	6.365		9.3	193	
# SAMP IN STATISTICS		4		4	4	4	4		4	4	2
% SAMP (EXCLUDED)											50
*=INTERIM TEST-NAME:		GBCF	GBCP	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N TOTAL	NNTKUR K'DAHL N TOTAL	PH	PPUT	RA226F	SS04UR	TURB
SAMPLE DATE HOUR	SAMPLE NUMBER	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	PHOSPHOR UNF.TOT. MG/L AS P	RADIUM 226 FIL. MBQ/L	SULPHATE UNF.REAC MG/L AS S04	TURB'ITY FTU
830417 1430	12356	80	40<	0.066	0.140	0.005	6.861U	0.010	40<	7.33	0.90
830626 1130	12420	100	40<	0.134	0.075	0.520	6.678	0.011	40<	7.21	1.40
830929 1130	12516	80	40<	0.042	0.110	0.300	6.810	0.015	40<	7.42	0.73
831109 1130	12548	50	40<	0.030	0.075	0.220	6.995	0.003<T	40<	10.55	0.73
MAXIMUM		100		0.134	0.140	0.520	6.995	0.015		10.55	1.40
ARITH MEAN		77		0.068	0.100	0.261	6.836	0.010<A		8.13	0.94
GEOM MEAN		75		0.058	0.096	0.114	6.835	0.008<A		8.02	0.91
MINIMUM		50		0.030	0.075	0.005	6.678	0.003		7.21	0.73
STD DEV (GEOM *)		21		0.046	0.031	0.213	0.131	0.005<A		1.62	0.32
# SAMP IN STATISTICS		4		4	4	4	4	4		4	4
% SAMP (EXCLUDED)											

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

139

B.O.W./ SITE: ROCHESTER CREEK  
 SAMPLE POINT: NEAR INLET TO QUIRKE LAKE  
 STATION TYPE: RIVER FLOW GAUGE FED 02CD005

STATION ID: 14-0019-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKES HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 29 57.97 LONG: 082 31 24.36

U T M: 17 0383100.0 5150450.0 4

REGION: 05

DISTANCE: 79.660

*=INTERIM TEST-NAME:		UUUT	UU238
		URANIUM	
SAMPLE		UNF.TOT.	URANIUM
DATE	HR	MG/L	238
YYMMDD	LMT	AS U	UG/L
830417	1430	12356 0.001<	8
830626	1130	12420 0.002	5
830929	1130	12516 0.017	3<
831109	1130	12548	3<
MAXIMUM		0.017	8
ARITH MEAN		0.009	6
GEOM MEAN			
MINIMUM		0.002	5
STD DEV (GEOM *)			
# SAMP IN STATISTICS		2	2
% SAMP (EXCLUDED)		33	50

## 1983 WATER QUALITY DATA REGION 5

140

B.O.W./ SITE: SERPENT RIVER  
 SAMPLE POINT: NEAR INLET TO QUIRKE LAKE  
 STATION TYPE: RIVER FLOW GAUGE FED 02CD006

STATION ID: 14-0019-011-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 30 39.11 LONG: 082 36 32.87

U T M: 17 0376550.0 5151850.0 4

REGION: 05

DISTANCE: 86.098

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKT ALK INFLECTN	COND25	DO	FWFLOW	FWSTRC	FWTEMP	GACF
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CACO3	POINT MG/L AS CACO3	CONDUCT. 25C UMHO/CM AT 25 C	DISOLVED OXYGEN MG/L AS O	STREAM FLOW M3 /S	STREAM COND.	WATER TEMP DEG.C	GROSS ALPHA CT FILTERED MBQ/L
830126 1330	12323	0.30	0101		13.22	787.0		3.840	2		1800
830417 1330	12354	0.30	0101	1.9	0.47U	497.0		16.500	3	1.0	1000
830531 1000	12386	0.30	0101	9.1	5.66U	438.0		10.400	3	13.0	320
830626 1000	12418	0.30	0101	17.3	14.62	1180.0		1.710	8	24.0	2300
830831 1000	12482	0.30	0101	21.9	19.63	2240.0		0.561	8	26.0	10000
830929 1000	12514	0.30	0101	25.2	22.36	2710.0	10.00	0.577		18.0	7800
831109 1000	12546	0.30	0101	17.9	9.26	762.0		2.010	8	8.0	1200
	MAXIMUM	0.30		25.2	22.36	2710.0	10.00	16.500		26.0	10000
	ARITH MEAN	0.30		15.5	12.17	1230.6	10.00	5.085		15.0	3489
	GEOM MEAN			12.0	8.00	990.5		2.566		10.3	1991
	MINIMUM	0.30		1.9	0.47	438.0	10.00	0.561		1.0	320
	STD DEV (GEOM *)			8.6	7.68	893.8		6.079		9.6	3802
	# SAMP IN STATISTICS	7		6	7	7	1	7		6	7
	% SAMP (EXCLUDED)										
*=INTERIM TEST-NAME:		GACP	GBCF	GBCP	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N	NNOTFR NO2+NO3N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PH	PPUT	RA226F	SS04UR
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L				PH	PHOSPHOR UNF.TOT. MG/L AS P	RADIUM 226 FIL. MBQ/L	SULPHATE UNF.REAC MG/L AS SO4
830126 1330	12323	260	770	300		16.000		8.62	0.001<T	150	273.90
830417 1330	12354	270	580	120	5.600	8.100	6.300	5.943U	0.025	250	170.15
830531 1000	12386	230	400	120	4.850	5.740	6.000	7.077U	0.005	100	156.00
830626 1000	12418	220	1500	190	14.900	19.800	16.000	7.342	0.005	90	584.50
830831 1000	12482	70	2900	820	28.500	43.650	29.800	7.528	0.005	40<	1150.00
830929 1000	12514	380	3700	1100		57.500	31.200	7.417	0.013	70	1253.00
831109 1000	12546	840	800	670	8.770	12.880	9.200	7.241	0.004	380	287.10
	MAXIMUM	840	3700	1100	28.500	57.500	31.200	8.62	0.025	380	1253.00
	ARITH MEAN	327	1521	474	12.524	23.381	16.417	7.31	0.008<A	173	553.52
	GEOM MEAN	262	1126	337	10.023	17.365	13.151	7.27	0.006<A		404.05
	MINIMUM	70	400	120	4.850	5.740	6.000	5.943	0.001	70	156.00
	STD DEV (GEOM *)	244	1283	390	9.770	19.567	11.496	0.79	0.008<A		465.51
	# SAMP IN STATISTICS	7	7	7	5	7	6	7	7	6	7
	% SAMP (EXCLUDED)									14	

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

141

B.O.W./ SITE: SERPENT RIVER  
 SAMPLE POINT: NEAR INLET TO QUIRKE LAKE  
 STATION TYPE: RIVER FLOW GAUGE FED 02CD006

STATION ID: 14-0019-011-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 30 39.11 LONG: 082 36 32.87

U T M: 17 0376550.0 5151850.0 4

REGION: 05

DISTANCE: 86.098

*=INTERIM TEST-NAME:		TURB	UUUT	UU238
			URANIUM	
SAMPLE			UNF.TOT.	URANIUM
DATE HOUR	SAMPLE	TURB'ITY	MG/L	238
YYMMDD LMT	NUMBER	FTU	AS U	UG/L
830126 1330	12323	0.90	0.024	27
830417 1330	12354	2.30	0.006	8
830531 1000	12386	0.89	0.006PNS	3<
830626 1000	12418	0.90	0.026	37
830831 1000	12482	0.52		170
830929 1000	12514	1.09	0.007	130
831109 1000	12546	1.08		16
MAXIMUM		2.30	0.026	170
ARITH MEAN		1.10	0.014	65
GEOM MEAN		1.00	0.011	
MINIMUM		0.52	0.006	8
STD DEV (GEOM *)		0.56	0.010	
# SAMP IN STATISTICS		7	5	6
% SAMP (EXCLUDED)				14

## 1983 WATER QUALITY DATA REGION 5

142

B.O.W./ SITE: CREEK  
 SAMPLE POINT: NEAR ROAD TO STANROCK TOWNSITE 32 2  
 STATION TYPE: INDUSTRIAL PROCESS

STATION ID: 14-0019-012-09

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 28 17.81 LONG: 082 33 04.73

U T M: 17 0380900.0 5147400.0 4

REGION: 05

DISTANCE: 86.902

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	DO	FWSTRC	FWTEMP	GACF	GACP	
				ALK	INFLECTN	CONDUCT.	DISOLVED					
				TOTAL	POINT	25C	OXYGEN			GROSS	GROSS	
				MG/L	MG/L	UMHO/CM	MG/L			ALPHA CT	ALPHA CT	
				AS CAC03	AS CAC03	AT 25 C	AS 0			FILTERED	UNDISSOL	
								STREAM	WATER	MBQ/L	MBQ/L	
								COND.	TEMP			
									DEG.C			
SAMPLE DATE	YEAR	MONTH	DAY	TIME	DEPTH	PROJECT	SUB-PROJ	CODE	AS	CAC03	AS	CAC03
830417	0900	12347	0.30	0101	10.6	3.67U	34.8	12.00	3	2.0	490	40<
830530	12378	0.30	0101	0.0	-52.00U	795.0			3	12.0	1900	100
830625	1145	12410	0.30	0101	0.0	-120.69<T	2240.0		8	22.0	2500	70
830928	1200	12506	0.30	0101	0.0	-100.95<T	2720.0			23.0		
831108	1200	12538	0.30	0101	0.0	-61.74<T	1296.0		8	9.0		
		MAXIMUM	0.30		10.6	3.67	2720.0	12.00		23.0	2500	100
		ARITH MEAN	0.30		2.1	-66.34<A	1417.2	12.00		13.6	1630	85
		GEOM MEAN				737.7				10.2	1325	
		MINIMUM	0.30		0.0	-120.69	34.8	12.00		2.0	490	70
		STD DEV (GEOM *)				1082.5				8.9	1032	
		# SAMP IN STATISTICS	5		5	5	1			5	3	2
		% SAMP (EXCLUDED)										33
*=INTERIM TEST-NAME:		GBCF	GBCP	NNHTFR	NNOTFR	NNTKUR	PH	PPUT	RA226F	SS04UR	TURB	
				NH3-N	TOTAL	K'DAHL N						
				FIL.REAC	FIL.REAC	UNF.REAC		PHOSPHOR		SULPHATE		
				MG/L	MG/L	MG/L		UNF.TOT.		UNF.REAC		
				AS N	AS N	AS N		MG/L		MG/L		
							PH	AS P		AS SO4		
SAMPLE DATE	YEAR	MONTH	DAY	TIME	DEPTH	PROJECT	SUB-PROJ	CODE	AS	CAC03	AS	CAC03
830417	0900	12347	0.30	0101	10.6	3.67U	34.8	12.00	3	2.0	490	40<
830530	12378	0.30	0101	0.0	-52.00U	795.0			3	12.0	1900	100
830625	1145	12410	0.30	0101	0.0	-120.69<T	2240.0		8	22.0	2500	70
830928	1200	12506	0.30	0101	0.0	-100.95<T	2720.0			23.0		
831108	1200	12538	0.30	0101	0.0	-61.74<T	1296.0		8	9.0		
		MAXIMUM	0.30		10.6	3.67	2720.0	12.00		23.0	2500	100
		ARITH MEAN	0.30		2.1	-66.34<A	1417.2	12.00		13.6	1630	85
		GEOM MEAN				737.7				10.2	1325	
		MINIMUM	0.30		0.0	-120.69	34.8	12.00		2.0	490	70
		STD DEV (GEOM *)				1082.5				8.9	1032	
		# SAMP IN STATISTICS	5		5	5	1			5	3	2
		% SAMP (EXCLUDED)										33
*=INTERIM TEST-NAME:		GBCF	GBCP	NNHTFR	NNOTFR	NNTKUR	PH	PPUT	RA226F	SS04UR	TURB	
				NH3-N	TOTAL	K'DAHL N						
				FIL.REAC	FIL.REAC	UNF.REAC		PHOSPHOR		SULPHATE		
				MG/L	MG/L	MG/L		UNF.TOT.		UNF.REAC		
				AS N	AS N	AS N		MG/L		MG/L		
							PH	AS P		AS SO4		
SAMPLE DATE	YEAR	MONTH	DAY	TIME	DEPTH	PROJECT	SUB-PROJ	CODE	AS	CAC03	AS	CAC03
830417	0900	12347	0.30	0101	10.6	3.67U	34.8	12.00	3	2.0	490	40<
830530	12378	0.30	0101	0.0	-52.00U	795.0			3	12.0	1900	100
830625	1145	12410	0.30	0101	0.0	-120.69<T	2240.0		8	22.0	2500	70
830928	1200	12506	0.30	0101	0.0	-100.95<T	2720.0			23.0		
831108	1200	12538	0.30	0101	0.0	-61.74<T	1296.0		8	9.0		
		MAXIMUM	0.30		10.6	3.67	2720.0	12.00		23.0	2500	100
		ARITH MEAN	0.30		2.1	-66.34<A	1417.2	12.00		13.6	1630	85
		GEOM MEAN				737.7				10.2	1325	
		MINIMUM	0.30		0.0	-120.69	34.8	12.00		2.0	490	70
		STD DEV (GEOM *)				1082.5				8.9	1032	
		# SAMP IN STATISTICS	5		5	5	1			5	3	2
		% SAMP (EXCLUDED)										33

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

143

B.O.W./ SITE: CREEK  
SAMPLE POINT: NEAR ROAD TO STANROCK TOWNSITE 32 2  
STATION TYPE: INDUSTRIAL PROCESS

STATION ID: 14-0019-012-09

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SERPENT RIVER

STORET CODE: 02  
002  
8040

LAT: 46 28 17.81 LONG: 082 33 04.73 U T M: 17 0380900.0 5147400.0 4 REGION: 05 DISTANCE: 86.902

*=INTERIM TEST-NAME:		UUUT	UU238
		URANIUM	
SAMPLE		UNF.TOT.	URANIUM
DATE	HR	MG/L	238
YYMMDD LHT	NUMBER	AS U	UG/L
830417 0900	12347	0.001<	
830530	12378	0.002PNS	3<
830625 1145	12410	0.003	4
830928 1200	12506	0.005	6
	MAXIMUM	0.005	6
	ARITH MEAN	0.003	5
	GEOM MEAN		
	MINIMUM	0.002	4
	STD DEV (GEOM *)		
	# SAMP IN STATISTICS	3	2
	% SAMP (EXCLUDED)	25	33



## 1983 WATER QUALITY DATA REGION 5

144

B.O.W./ SITE: SERPENT RIVER  
 SAMPLE POINT: AT PANEL MINESIDE ROAD 24 1  
 STATION TYPE: RIVER

STATION ID: 14-0019-014-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

		LAT: 46 30 11.54		LONG: 082 38 28.89		U T M: 17 0374060.0 5151050.0 4		REGION: 05		DISTANCE: 89.477	
*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	FWSTRC	FWTEMP	GACF	GACP	GBCF
					ALK	INFLECTN	CONDUCT.		GROSS	GROSS	GROSS
SAMPLE		SAMPLE	PROJECT	TOTAL	POINT	25C		WATER	ALPHA CT	ALPHA CT	BETA CT
DATE	HOUR	NUMBER	SUB-PROJ	MG/L	MG/L	UMHO/CM	STREAM	TEMP	FILTERED	UNDISSOL	FILTERED
YYMMDD	LMT		CODE	AS CAC03	AS CAC03	AT 25 C	COND.	DEG.C	MBQ/L	MBQ/L	MBQ/L
830126	1300	12322	0101		17.28	637.0	2		520	220	520
830417	1300	12353	0101	2.0	-0.07U	449.0	3	2.0	650	540	520
830531	0900	12385	0101	10.8	5.30U	386.0	3	11.0	320	210	260
830625	1630	12417	0101	17.5	9.74	1292.0	8	24.0	1400	240	370
830831	0900	12481	0101	19.3	15.98	2220.0	8	26.0	8000	60	3100
830929	0900	12513	0101	22.3	18.96	3030.0		19.0	6000	590	3700
831109	0900	12545	0101	17.6	11.17	1040.0	8	8.0	1300	550	840
MAXIMUM		0.30		22.3	18.96	3030.0		26.0	8000	590	3700
ARITH MEAN		0.30		14.9	11.19	1293.4		15.0	2599	344	1330
GEOM MEAN				11.9		999.7		11.3	1378	274	821
MINIMUM		0.30		2.0	-0.07	386.0		2.0	320	60	260
STD DEV (GEOM *)				7.4		992.1		9.5	3087	211	1436
# SAMP IN STATISTICS		7		6	7	7		6	7	7	7
% SAMP (EXCLUDED)											
*=INTERIM TEST-NAME:		GBCP	NNHTFR	NNOTFR	NNTKUR	PH	PPUT	RA226F	SS04UR	TURB	UUUT
			NH3-N		K'DAHL N						
SAMPLE		GROSS	TOTAL	NO2+NO3N	TOTAL		PHOSPHOR		SULPHATE		URANIUM
DATE	HOUR	BETA CT	FIL.REAC	FIL.REAC	UNF.REAC		UNF.TOT.		UNF.REAC		UNF.TOT.
YYMMDD	LMT	MBQ/L	MG/L	MG/L	MG/L	PH	MG/L	226 FIL.	MG/L	TURB'ITY	MG/L
			AS N	AS N	AS N		AS P	MBQ/L	AS SO4	FTU	AS U
830126	1300	12322	100	14.000		8.81	0.001<T	140	201.90	0.85	0.008
830417	1300	12353	210	7.250	5.300	5.472U	0.015	300	152.45	1.60	0.003
830531	0900	12385	70	7.000	4.300	6.992U	0.002<T	100	120.00	0.69	0.004PNS
830625	1630	12417	120	24.900		7.109	0.005	140	611.00	0.50	0.010
830831	0900	12481	330	48.280	32.200	7.473	0.005	40<	1025.00	0.42	
830929	0900	12513	950	72.910	43.700	7.370	0.010	210	1413.00	0.80	0.010
831109	0900	12545	280	20.060	14.800	7.380	0.002<T	270	399.20	1.70	
MAXIMUM		950	30.560	72.910	43.700	8.81	0.015	300	1413.00	1.70	0.010
ARITH MEAN		294	13.624	27.771	20.060	7.23	0.006<A	193	560.36	0.94	0.007
GEOM MEAN		206	9.776	19.931	13.654	7.17	0.004<A		387.20	0.83	0.006
MINIMUM		70	3.000	7.000	4.300	5.472	0.001	100	120.00	0.42	0.003
STD DEV (GEOM *)		305	11.244	24.386	17.321	0.98	0.005<A		493.33	0.51	0.003
# SAMP IN STATISTICS		7	5	7	5	7	7	6	7	7	5
% SAMP (EXCLUDED)								14			

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

145

B.O.W./ SITE: SERPENT RIVER  
SAMPLE POINT: AT PANEL MINESIDE ROAD 24 1  
STATION TYPE: RIVER

STATION ID: 14-0019-014-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SERPENT RIVER

STORET CODE: 02  
002  
8040

LAT: 46 30 11.54 LONG: 082 38 28.89 U T M: 17 0374060.0 5151050.0 4 REGION: 05 DISTANCE: 89.477

\*=INTERIM TEST-NAME: UU238

SAMPLE DATE	HOUR	SAMPLE NUMBER	URANIUM 238 UG/L
830126	1300	12322	5
830417	1300	12353	3<
830531	0900	12385	3<
830625	1630	12417	17
830831	0900	12481	120
830929	0900	12513	92
831109	0900	12545	17

MAXIMUM	120
ARITH MEAN	50
GEOM MEAN	
MINIMUM	5
STD DEV (GEOM *)	
# SAMP IN STATISTICS	5
% SAMP (EXCLUDED)	28

## 1983 WATER QUALITY DATA REGION 5

146

B.O.W./ SITE: STOLLERY LAKE  
 SAMPLE POINT: STOLLERY LAKE AT DENISON DAM 21 4  
 STATION TYPE: INDUSTRIAL PROCESS

STATION ID: 14-0019-017-09

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 29 08.68 LONG: 082 38 06.36 U T M: 17 0374500.0 5149100.0 4 REGION: 05 DISTANCE: 92.535

*INTERIM TEST-NAME:		FNSADP	FGPROJ	ALKT	ALKTI	COND25	FWSTRC	FWTEMP	GACF	GACP	GBCF	
SAMPLE DATE	HOUR	SAMPLE NUMBER	SAMPLE DEPTH	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	INFLECTN POINT MG/L AS CAC03	CONDUCT. 25C UMHO/CM AT 25 C	STREAM COND.	WATER TEMP DEG.C	GROSS ALPHA CT FILTERED MBQ/L	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L
830126	1000	12317	0.30	0101		66.43	3300.0	2		4800	1200	3900
830417	1000	12349	0.30	0101	9.4	2.00U	2610.0	3	5.0	3000	11000	1900
830530	1430	12381	0.30	0101	36.7	18.94U	3040.0	3	14.0	500	5000	2200
830625	1430	12413	0.30	0101	27.7	23.60	3450.0	8	25.0	3800	2600	3400
830830	1430	12477	0.30	0101	27.4	25.90	3330.0	8	25.0	11000	2700	4200
830928	1420	12509	0.30	0101	23.6	21.52	2550.0					
831108	1430	12541	0.30	0101	31.2	28.30	3030.0	8	9.0	4400	6400	3100
MAXIMUM		0.30			36.7	66.43	3450.0		25.0	11000	11000	4200
ARITH MEAN		0.30			26.0	26.67	3044.3		15.6	4583	4817	3117
GEOM MEAN					24.0	19.13	3026.2		13.2	3314	3790	2995
MINIMUM		0.30			9.4	2.00	2550.0		5.0	500	1200	1900
STD DEV (GEOM *)					9.2	19.53	352.3		9.2	3494	3557	915
# SAMP IN STATISTICS		7			6	7	7		5	6	6	6
% SAMP (EXCLUDED)												

*INTERIM TEST-NAME:		GBCP	NNHTFR	NNOTFR	NNTKUR	PH	PPUT	RA226F	SS04UR	TURB	UUUT	
SAMPLE DATE	HOUR	SAMPLE NUMBER	GROSS BETA CT UNDISSOL MBQ/L	NH3-N TOTAL FIL.REAC MG/L AS N	NO2+NO3N FIL.REAC MG/L AS N	K'DAHL N TOTAL UNF.REAC MG/L AS N	PHOSPHOR UNF.TOT. MG/L AS P	RADIUM 226 FIL. MBQ/L	SULPHATE UNF.REAC MG/L AS S04	TURB'ITY FTU	URANIUM UNF.TOT. MG/L AS U	
830126	1000	12317	650	61.00	92.500	61.000	9.16	0.005	1100	1427.00	2.20	0.053
830417	1000	12349	5000	39.5	51.250	39.500	6.533U	0.015	2900	1281.00	14.00	0.033
830530	1430	12381	2400	46.000	65.000	46.200	7.299	0.012	470	1496.00	4.70	0.031PNS
830625	1430	12413	1700	63.500	77.500	71.000	7.599	0.005	1900	2002.00	2.10	0.042
830830	1430	12477	2100	48.930	80.030	2.000	7.683	0.005	290	1656.00	2.30	
830928	1420	12509		1.290	12.110	1.480	7.495	0.020		1340.00	0.54	0.006
831108	1430	12541	3600	46.060	81.650	53.000	7.641	0.007	3100		0.70	
MAXIMUM		5000	63.500	92.500	71.000	9.16	0.020	3100	2002.00	14.00	0.053	
ARITH MEAN		2575	43.8	65.720	39.169	7.63	0.010	1627	1533.67	3.79	0.033	
GEOM MEAN		2155	29.7	56.725	19.909	7.60	0.008	1170	1516.20	2.22	0.027	
MINIMUM		650	1.290	12.110	1.480	6.533	0.005	290	1281.00	0.54	0.006	
STD DEV (GEOM *)		1527	20.6	27.075	27.485	0.78	0.006	1206	263.99	4.70	0.017	
# SAMP IN STATISTICS		6	7	7	7	7	7	6	6	7	5	
% SAMP (EXCLUDED)												

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

147

B.O.W./ SITE: STOLLERY LAKE  
SAMPLE POINT: STOLLERY LAKE AT DENISON DAM 21 4  
STATION TYPE: INDUSTRIAL PROCESS

STATION ID: 14-0019-017-09

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SERPENT RIVER

STORET CODE: 02  
002  
8040

LAT: 46 29 08.68 LONG: 082 38 06.36 U T M: 17 0374500.0 5149100.0 4 REGION: 05 DISTANCE: 92.535

\*=INTERIM TEST-NAME: UU238

SAMPLE DATE	HR	SAMPLE NUMBER	URANIUM 238 UG/L
830126	1000	12317	79
830417	1000	12349	28
830530	1430	12381	3<
830625	1430	12413	57
830830	1430	12477	170
831108	1430	12541	74

MAXIMUM	170
ARITH MEAN	82
GEOM MEAN	
MINIMUM	28
STD DEV (GEOM *)	
# SAMP IN STATISTICS	5
% SAMP (EXCLUDED)	16

## 1983 WATER QUALITY DATA REGION 5

148

B.O.W./ SITE: DUNLOP LAKE OUTLET  
 SAMPLE POINT: AT OUTLET OF DUNLOP LAKE 18 2  
 STATION TYPE: RIVER FLOW GAUGE FED 02CD002

STATION ID: 14-0019-019-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 28 51.78 LONG: 082 38 55.10

U T M: 17 0373450.0 5148600.0 4

REGION: 05

DISTANCE: 93.339

*=INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	ALKTI	COND25	DO	FWFLOW	FWSTRC	FWTEMP	GACF
SAMPLE DATE	HOUR	SAMPLE	SAMPLE	PROJECT	ALK	INFLECTN	CONDUCT.	DISOLVED	STREAM	WATER	GROSS
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	TOTAL	POINT	25C	OXYGEN	FLOW	TEMP	ALPHA CT
			M	CODE	MG/L	MG/L	UMHO/CM	MG/L	M3	DEG.C	FILTERED
					AS CACO3	AS CACO3	AT 25 C	AS O	/S	COND.	MBQ/L
830126	0900	12315	0.30	0101		4.19	42.4		2.600	2	180
830530	1300	12379	0.30	0101	9.8	3.74U	34.4	13.00	4.720	3	140
830625	1300	12411	0.30	0101	10.2	4.17	32.9	10.00	0.772	8	90
830830	1300	12475	0.30	0101	6.9	4.92	40.9	9.00	0.027	8	40<
830928	1300	12507	0.30	0101	5.9	4.40	33.4	10.00	0.003		70
831108	1300	12539	0.30	0101	5.4	4.41	33.6	12.00	1.930	8	40
MAXIMUM			0.30		10.2	4.92	42.4	13.00	4.720		180
ARITH MEAN			0.30		7.6	4.30	36.3	10.80	1.675		104
GEOM MEAN					7.4	4.29	36.1	10.70	0.338		
MINIMUM			0.30		5.4	3.74	32.9	9.00	0.003		40
STD DEV (GEOM *)					2.2	0.39	4.2	1.64	1.818		
# SAMP IN STATISTICS			6		5	6	6	5	6		5
% SAMP (EXCLUDED)											16
*=INTERIM TEST-NAME:		GACP	GBCF	GBCP	NNHTFR	NNOTFR	NNTKUR	PH	PPUT	RA226F	SS04UR
		GROSS	GROSS	GROSS	NH3-N	NO2+NO3N	K'DAHL N				
		ALPHA CT	BETA CT	BETA CT	TOTAL	FIL.REAC	TOTAL		PHOSPHOR	RADIUM	SULPHATE
		UNDISSOL	FILTERED	UNDISSOL	FIL.REAC	FIL.REAC	UNF.REAC		UNF.TOT.	226 FIL.	UNF.REAC
		MBQ/L	MBQ/L	MBQ/L	MG/L	MG/L	MG/L		MG/L	MBQ/L	MG/L
					AS N	AS N	AS N	PH	AS P		AS SO4
830126	0900	12315	40<	60	40<	0.068	0.125	0.230	6.84	0.007	7.97
830530	1300	12379	40<	40<	40<	0.032	0.075	0.180	6.994U	0.007	12.41
830625	1300	12411	40<	50	40<	0.032	0.040	0.210	7.031	0.003	7.21
830830	1300	12475	80	50	90	0.012	0.150	0.220	7.176	0.011	6.71
830928	1300	12507	40<	60	40<	0.026	0.015	0.190	6.884	0.018	6.47
831108	1300	12539	40<	40	40<	0.010	0.035	0.110	7.045	0.001<T	8.40
MAXIMUM			80	60	90	0.068	0.150	0.230	7.176	0.018	12.41
ARITH MEAN			80	52	90	0.030	0.073	0.190	6.99	0.008<A	8.19
GEOM MEAN						0.025	0.056	0.185	6.99	0.006<A	7.99
MINIMUM			80	40	90	0.010	0.015	0.110	6.84	0.001	6.47
STD DEV (GEOM *)						0.021	0.054	0.043	0.12	0.006<A	2.19
# SAMP IN STATISTICS			1	5	1	6	6	6	6	6	6
% SAMP (EXCLUDED)			83	16	83						

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

149

B.O.W./ SITE: DUNLOP LAKE OUTLET  
 SAMPLE POINT: AT OUTLET OF DUNLOP LAKE 18 2  
 STATION TYPE: RIVER FLOW GAUGE FED 02CD002

STATION ID: 14-0019-019-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 28 51.78 LONG: 082 38 55.10

U T M: 17 0373450.0 5148600.0 4

REGION: 05

DISTANCE: 93.339

*INTERIM TEST-NAME:		TURB	UUUT URANIUM UNF.TOT.	UU238 URANIUM 238
SAMPLE DATE	TIME	SAMPLE NUMBER	TURB*ITY FTU	MG/L AS U
YYMMDD	LMT			UG/L
830126	0900	12315	0.73	0.001<
830530	1300	12379	0.66	0.002PNS
830625	1300	12411	0.50	0.001<
830830	1300	12475	0.90	
830928	1300	12507	0.56	
831108	1300	12539	0.39	
MAXIMUM		0.90	0.009	3
ARITH MEAN		0.62	0.005	3
GEOM MEAN		0.60		
MINIMUM		0.39	0.002	3
STD DEV (GEOM *)		0.18		
# SAMP IN STATISTICS		6	2	1
% SAMP (EXCLUDED)			50	83

## 1983 WATER QUALITY DATA REGION 5

150

B.O.W./ SITE: SERPENT RIVER TRIB.  
 SAMPLE POINT: MOOSE LAKE OUTLET  
 STATION TYPE: RIVER

STATION ID: 14-0019-020-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 27 44.66 LONG: 082 30 59.54

U T M: 17 0383550.0 5146325.0 4

REGION: 05

DISTANCE: 85.293

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI ALK INFLECTN	COND25	CUUT	FEUT	FWSTRC	FWTEMP	GACF
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CACO3	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	IRON UNF.TOT. MG/L AS FE	STREAM COND.	WATER TEMP DEG.C	GROSS ALPHA CT FILTERED MBQ/L
830125	1600	12314	0.30	0101	89.3	24.77	2450.0	0.035	0.565	2	
830416	1730	12345	0.30	0101	67.5	27.46U	1370.0	0.010	0.245	3	880
830530	1100	12377	0.30	0101	2.8	-2.00U	1860.0	0.037	3.050	3	3100
830625	1100	12409	0.30	0101	16.1	21.89	2050.0	0.003	0.185	8	90
830830	1100	12473	0.30	0101	25.8	23.62	2430.0	0.006	0.135	8	870
830928	1100	12505	0.30	0101	26.7	24.04	2700.0	0.017	0.490		1500
831108	1100	12537	0.30	0101	0.0	-38.07<T	2980.0	0.110	14.250	8	21000
		MAXIMUM	0.30		89.3	27.46	2980.0	0.110	14.250		21000
		ARITH MEAN	0.30		32.6	11.67<A	2262.9	0.031	2.703		4573
		GEOM MEAN					2201.0	0.017	0.689		1374
		MINIMUM	0.30		0.0	-38.07	1370.0	0.003	0.135		90
		STD DEV (GEOM *)				543.6	0.037	5.195		9.1	8111
		* SAMP IN STATISTICS	7		7	7	7	7		6	6
		% SAMP (EXCLUDED)									
*=INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR NH3-N TOTAL	NNOTFR	NNTKUR K'DAHL N TOTAL	PBUT	PH	PPUT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	NICKEL UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	NO2+NO3N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PHOSPHOR UNF.TOT. MG/L AS P
830125	1600	12314				0.004	7.0	8.500	7.000	0.003<	8.90
830416	1730	12345	40	280	40<	0.002<	2.020	2.060	2.300	0.003<	7.910U
830530	1100	12377	590	810	260	0.033	2.000	4.840	2.000	0.003<	4.556
830625	1100	12409	40<	40<	40<	0.002	1.780	6.080	2.000	0.003<	7.830
830830	1100	12473	40<	400	40<	0.002<	0.278	9.750	0.970	0.003<	8.065
830928	1100	12505	50	520	120	0.002	0.314	10.45	0.400	0.004	8.042
831108	1100	12537	1600	5800	890	0.097	2.450	7.430	2.520	0.005	3.44
		MAXIMUM	1600	5800	890	0.097	7.0	10.45	7.000	0.005	8.90
		ARITH MEAN	570	1562	423	0.028	2.3	7.02	2.456	0.004	6.96
		GEOM MEAN					1.4	6.29	1.807		3.63
		MINIMUM	40	280	120	0.002	0.278	2.060	0.400	0.004	3.44
		STD DEV (GEOM *)					2.3	2.94	2.142		2.08
		* SAMP IN STATISTICS	4	5	3	5	7	7	7	2	7
		% SAMP (EXCLUDED)	33	16	50	28				71	

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

: 151

B.O.W./ SITE: SERPENT RIVER TRIB.  
 SAMPLE POINT: MOOSE LAKE OUTLET  
 STATION TYPE: RIVER

STATION ID: 14-0019-020-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 27 44.66 LONG: 082 30 59.54

U T M: 17 0383550.0 5146325.0 4

REGION: 05

DISTANCE: 85.293

*=INTERIM		TEST-NAME:	RA226F	SSO4UR	TURB	UUUT	UU238	ZNUT
			RADIUM	SULPHATE		URANIUM		ZINC
SAMPLE			UNF.REAC		UNF.TOT.	UNF.TOT.		
DATE	HOUR	SAMPLE	226 FIL.	MG/L	MG/L	238	MG/L	
YYMMDD	LMT	NUMBER	MBQ/L	AS SO4	AS U	UG/L	AS ZN	
830125	1600	12314		958.30	18.40	0.009		0.015
830416	1730	12345	160	491.00	2.10	0.001<	4	0.002
830530	1100	12377	40<	799.00	17.50	0.052	41	0.130
830625	1100	12409	40<	939.50	0.90	0.006	15	0.001
830830	1100	12473	40<	977.50	0.68	0.006	13	0.001<
830928	1100	12505	40<	973.00	5.10	0.014	22	0.002
831108	1100	12537	60	1323.50	40.00	0.210	240	0.440
MAXIMUM			160	1323.50	40.00	0.210	240	0.440
ARITH MEAN			110	923.11	12.10	0.049	56	0.098
GEOM MEAN				890.66	5.06		24	
MINIMUM			60	491.00	0.68	0.006	4	0.001
STD DEV (GEOM *)				248.12	14.45		91	
# SAMP IN STATISTICS			2	7	7	6	6	6
% SAMP (EXCLUDED)			66			14		14



## 1983 WATER QUALITY DATA REGION 5

152

B.O.W./ SITE: QUIRKE TAILINGS CONTROL  
 SAMPLE POINT: POND A OUTLET  
 STATION TYPE: RIVER

STATION ID: 14-0019-022-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 30 04.16 LONG: 082 41 21.55

U T M: 17 0370375.0 5150900.0 4

REGION: 05

DISTANCE: 91.730

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	CUUT	FEUT	FWSTRC	GACF	GACP	
SAMPLE DATE YYMMDD LMT	SAMPLE HOUR	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CACO3	INFLECTN POINT MG/L AS CACO3	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	IRON UNF.TOT. MG/L AS FE	STREAM COND.	GROSS ALPHA CT FILTERED MBQ/L	GROSS ALPHA CT UNDISSOL MBQ/L
830126	1130	12320	0.30	0101	9.0	3.51	60.4	0.003	0.680	2	120	40<
		MAXIMUM	0.30		9.0	3.51	60.4	0.003	0.680		120	
		ARITH MEAN	0.30		9.0	3.51	60.4	0.003	0.680		120	
		GEOM MEAN										
		MINIMUM	0.30		9.0	3.51	60.4	0.003	0.680		120	
		STD DEV (GEOM *)										
		# SAMP IN STATISTICS	1		1	1	1	1	1		1	
		% SAMP (EXCLUDED)										
*INTERIM TEST-NAME:		GBCF	GBCP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PPUT	RA226F	
SAMPLE DATE YYMMDD LMT	SAMPLE HOUR	SAMPLE NUMBER	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	NICKEL UNF.TOT. MG/L AS NI	TOTAL FIL.REAC MG/L AS N	NO2+NO3N FIL.REAC MG/L AS N	K'DAHL N TOTAL UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PHOSPHOR UNF.TOT. MG/L AS P	RADIUM 226 FIL. MBQ/L	
830126	1130	12320	80	40<	0.004	0.300	0.370	0.620	0.003<	6.67	0.008	40<
		MAXIMUM	80		0.004	0.300	0.370	0.620		6.67	0.008	
		ARITH MEAN	80		0.004	0.300	0.370	0.620		6.67	0.008	
		GEOM MEAN										
		MINIMUM	80		0.004	0.300	0.370	0.620		6.67	0.008	
		STD DEV (GEOM *)										
		# SAMP IN STATISTICS	1		1	1	1	1		1	1	
		% SAMP (EXCLUDED)										
*INTERIM TEST-NAME:		SS04UR	TURB	UUUT	UU238	ZN*IT						
SAMPLE DATE YYMMDD LMT	SAMPLE HOUR	SAMPLE NUMBER	SULPHATE UNF.REAC MG/L AS S04	TURB'ITY FTU	URANIUM UNF.TOT. MG/L AS U	ZINC UNF.TOT. MG/L AS ZN						
830126	1130	12320	13.55	3.10	0.001	3<						
		MAXIMUM	13.55	3.10	0.001	0.011						
		ARITH MEAN	13.55	3.10	0.001	0.011						
		GEOM MEAN										
		MINIMUM	13.55	3.10	0.001	0.011						
		STD DEV (GEOM *)										
		# SAMP IN STATISTICS	1	1	1	1						
		% SAMP (EXCLUDED)										

## 1983 WATER QUALITY DATA REGION 5

153

B.O.W./ SITE: PRONTO EFFLUENT  
 SAMPLE POINT: AT HWY.NO.17 NEAR PRONTO MINE RD.60 1  
 STATION TYPE: LAKE FLOW GAUGE MOE 02CD100

STATION ID: 14-0019-023-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 12 06.40 LONG: 082 41 52.59

U T M: 17 0369000.0 5117650.0 4

REGION: 05

DISTANCE: 0.805

*=INTERIM TEST-NAME:			FWSADP	FGPROJ	ALKT	ALKTI	COND25	FWSTRC	FWTEMP	GACF	GACP	GBCF
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK	ALK	CONDUCT. 25C UMHO/CM AT 25 C	STREAM COND.	WATER TEMP DEG.C	GROSS	GROSS	GROSS
					TOTAL MG/L AS CAC03	INFLECTN POINT MG/L AS CAC03				ALPHA CT FILTERED MBQ/L	ALPHA CT UNDISSOL MBQ/L	BETA CT FILTERED MBQ/L
830125		12303	0.30	0101		50.34	870.0	2		810	60	320
830416	1000	12333	0.30	0101	27.9	27.11U	391.0	3	5.0	440	40<	170
830529	1000	12365	0.30	0101		20.53U		3	9.0	350	40<	160
830624	1000	12397	0.30	0101	53.7	51.77	785.0	8	24.0	160	590	120
830829	1000	12461	0.30	0101		48.11	1002.0	8	24.0	590	40<	290
830927	1000	12493	0.30	0101	56.4	56.09	821.0		18.0	700	50	270
831107	1000	12525	0.30	0101	32.5	30.41	669.0	8	8.0	26000	240	5800
		MAXIMUM	0.30		56.4	56.09	1002.0		24.0	26000	590	5800
		ARITH MEAN	0.30		42.6	40.62	756.3		14.7	4150	235	1019
		GEOM MEAN			40.7	38.22	726.4		12.5	802		335
		MINIMUM	0.30		27.9	20.53	391.0		5.0	160	50	120
		STD DEV (GEOM *)			14.5	14.17	209.5		8.4	9637		2110
		# SAMP IN STATISTICS	7		4	7	6		6	7	4	7
		% SAMP (EXCLUDED)									42	
*=INTERIM TEST-NAME:			GBCP	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC	NNTKUR K'DAHL N TOTAL	PH	PPUT	RA226F	SS04UR	TURB	UUUT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	GROSS BETA CT UNDISSOL MBQ/L	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	PHOSPHOR UNF.TOT. MG/L AS P	RADIUM 226 FIL. MBQ/L	SULPHATE	TURB'ITY FTU	URANIUM
										UNF.REAC MG/L AS S04		UNF.TOT. MG/L AS U
830125		12303	60	0.034	0.795	0.210	7.60	0.017	40<	389.00	9.80	0.011
830416	1000	12333	40<	0.002<T	0.210	0.220	7.810U	0.016	40<	143.85	1.40	0.005
830529	1000	12365	40<		0.015	0.270	7.706U		40<	198.00		0.003PNS
830624	1000	12397	1100	0.026	0.005<T	0.310	7.909	0.007	110	367.60	3.60	0.008
830829	1000	12461	40<		0.020	0.033	7.331	0.002<T	70	535.75	1.48	
830927	1000	12493	90	0.032	0.015	0.370	7.662	0.055	60	324.00	7.50	
831107	1000	12525	460	0.004<T	0.020	0.420	6.883	0.010	50	197.30	1.18	
		MAXIMUM	1100	0.034	0.795	0.420	7.909	0.055	110	535.75	9.80	0.011
		ARITH MEAN	427	0.020<A	0.154<A	0.300	7.56	0.018<A	72	307.93	4.16	0.007
		GEOM MEAN		0.012<A	0.036<A	0.290	7.55	0.011<A		281.33	2.94	0.006
		MINIMUM	60	0.002	0.005	0.210	6.883	0.002	50	143.85	1.18	0.003
		STD DEV (GEOM *)		0.015<A	0.292<A	0.083	0.35	0.019<A		137.56	3.66	0.003
		# SAMP IN STATISTICS	4	5	7	6	7	6	4	7	6	4
		% SAMP (EXCLUDED)	42						42			

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

154

B.O.W./ SITE: PRONTO EFFLUENT  
SAMPLE POINT: AT HWY.NO.17 NEAR PRONTO MINE RD.60 1  
STATION TYPE: LAKE FLOW GAUGE MOE 02CD100

STATION ID: 14-0019-023-01

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SERPENT RIVER

STORET CODE: 02  
002  
8040

LAT: 46 12 06.40 LONG: 082 41 52.59 U T M: 17 0369000.0 5117650.0 4 REGION: 05 DISTANCE: 0.805

\*=INTERIM TEST-NAME: UU238

SAMPLE DATE	HOUR	SAMPLE NUMBER	URANIUM 238 UG/L
830125		12303	10
830416	1000	12333	5
830529	1000	12365	4
830624	1000	12397	3
830829	1000	12461	7
830927	1000	12493	10
831107	1000	12525	430

MAXIMUM	430
ARITH MEAN	67
GEOM MEAN	11
MINIMUM	3
STD DEV (GEOM *)	160
# SAMP IN STATISTICS	7
% SAMP (EXCLUDED)	

## 1983 WATER QUALITY DATA REGION 5

155

B.O.W./ SITE: SERPENT RIVER TRIB  
 SAMPLE POINT: PANEL MINE TREATMENT PLANT INFLOW P13  
 STATION TYPE: RIVER

STATION ID: 14-0019-025-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 30 34.36 LONG: 082 32 29.90 U T M: 17 0381725.0 5151600.0 4 REGION: 05 DISTANCE: 80.643

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI ALK INFLECTN POINT	COND25 CONDUCT. 25C UMHO/CM AT 25 C	CUUT COPPER UNF.TOT. MG/L AS CU	FEUT IRON UNF.TOT. MG/L AS FE	FWSTRC STREAM COND.	GACF GROSS ALPHA CT FILTERED MBQ/L	GACP GROSS ALPHA CT UNDISSOL MBQ/L	
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	COND25 CONDUCT. 25C UMHO/CM AT 25 C	CUUT COPPER UNF.TOT. MG/L AS CU	FEUT IRON UNF.TOT. MG/L AS FE	FWSTRC STREAM COND.	GACF GROSS ALPHA CT FILTERED MBQ/L	GACP GROSS ALPHA CT UNDISSOL MBQ/L	
830126	1700	12328	0.30	0101	15.8	12.42	899.0	0.016	1.080	2	4300	280
		MAXIMUM	0.30		15.8	12.42	899.0	0.016	1.080		4300	280
		ARITH MEAN	0.30		15.8	12.42	899.0	0.016	1.080		4300	280
		GEOM MEAN										
		MINIMUM	0.30		15.8	12.42	899.0	0.016	1.080		4300	280
		STD DEV (GEOM *)										
		# SAMP IN STATISTICS	1		1	1	1	1	1		1	1
		% SAMP (EXCLUDED)										

*INTERIM TEST-NAME:		GBCF GROSS BETA CT FILTERED MBQ/L	GBCP GROSS BETA CT UNDISSOL MBQ/L	NIUT NICKEL UNF.TOT. MG/L AS NI	NNOTFR NO2+NO3N FIL.REAC MG/L AS N	PBUT LEAD UNF.TOT. MG/L AS PB	PH PH	PPUT PHOSPHOR UNF.TOT. MG/L AS P	RA226F RADIUM 226 FIL. MBQ/L	SS04UR SULPHATE UNF.REAC MG/L AS SO4	TURB TURB'ITY FTU	
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	COND25 CONDUCT. 25C UMHO/CM AT 25 C	CUUT COPPER UNF.TOT. MG/L AS CU	FEUT IRON UNF.TOT. MG/L AS FE	FWSTRC STREAM COND.	GACF GROSS ALPHA CT FILTERED MBQ/L	GACP GROSS ALPHA CT UNDISSOL MBQ/L	
830126	1700	12328	3800	330	0.005	4.150	0.003<	6.02	0.001<T	2500	356.10	2.60
		MAXIMUM	3800	330	0.005	4.150		6.02	0.001	2500	356.10	2.60
		ARITH MEAN	3800	330	0.005	4.150		6.02	0.001<A	2500	356.10	2.60
		GEOM MEAN										
		MINIMUM	3800	330	0.005	4.150		6.02	0.001	2500	356.10	2.60
		STD DEV (GEOM *)										
		# SAMP IN STATISTICS	1	1	1	1		1	1	1	1	1
		% SAMP (EXCLUDED)										

*INTERIM TEST-NAME:		UUUT URANIUM UNF.TOT. MG/L AS U	UU238 URANIUM 238 UG/L	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE
830126	1700	12328	0.025	16
		MAXIMUM	0.025	16
		ARITH MEAN	0.025	16
		GEOM MEAN		
		MINIMUM	0.025	16
		STD DEV (GEOM *)		
		# SAMP IN STATISTICS	1	1
		% SAMP (EXCLUDED)		

## 1983 WATER QUALITY DATA REGION 5

156

B.O.W./ SITE: SERPENT RIVER TRIB  
 SAMPLE POINT: PANEL MINE TREATMENT PLANT OUTLET P14  
 STATION TYPE: INDUSTRIAL PROCESS

STATION ID: 14-0019-026-09

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 30 27.99				LONG: 082 32 21.51				U T M: 17 0381900.0 5151400.0 4				REGION: 05		DISTANCE: 80.321	
*=INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	ALKTI	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP			
SAMPLE					ALK	ALK									
DATE	HOUR		SAMPLE	PROJECT	TOTAL	INFLECTN	CONDUCT.	COPPER	DISOLVED	IRON					
YYMMDD	LMT	SAMPLE	DEPTH	SUB-PROJ	MG/L	POINT	25C	UNF.TOT.	OXYGEN	UNF.TOT.					
		NUMBER	M	CODE	AS CAC03	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	TEMP			
							AT 25 C	AS CU	AS O	AS FE	COND.	DEG.C			
830126	1730	12329	0.30	0101	18.4	14.72	2560.0	0.028		0.055	2				
830417	1700	12359	0.30	0101	23.8	26.88U	2390.0	0.008		0.170	3	3.0			
830531	1430	12391	0.30	0101	12.7	8.16U	2010.0	0.008	10.00	0.050	3	10.0			
830626	1430	12423	0.30	0101	21.6	16.29	2170.0	0.005		0.023					
830831	1430	12487	0.30	0101	23.3	21.87	2450.0	0.007		0.040<T	8	24.0			
830929	1430	12519	0.30	0101	24.5	22.51	2660.0	0.009		0.040<T		15.0			
831109	1430	12551	0.30	0101	29.4	26.81	2630.0	0.007		0.040<T	8	8.0			
MAXIMUM			0.30		29.4	26.88	2660.0	0.028	10.00	0.170		24.0			
ARITH MEAN			0.30		22.0	19.61	2410.0	0.010	10.00	0.060<A		12.0			
GEOM MEAN					21.3	18.33	2399.1	0.009		0.049<A		9.7			
MINIMUM			0.30		12.7	8.16	2010.0	0.005	10.00	0.023		3.0			
STD DEV (GEOM *)					5.3	6.88	242.6	0.008		0.050<A		8.0			
# SAMP IN STATISTICS			7		7	7	7	7	1	7		5			
% SAMP (EXCLUDED)															
*=INTERIM		TEST-NAME:	GACF	GACP	GBCF	GBCP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH			
SAMPLE			GROSS	GROSS	GROSS	GROSS	NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD				
DATE	HOUR		ALPHA CT	ALPHA CT	BETA CT	BETA CT	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.				
YYMMDD	LMT	SAMPLE	FILTERED	UNDISSOL	FILTERED	UNDISSOL	MG/L	MG/L	MG/L	MG/L	MG/L	PH			
		NUMBER	MBQ/L	MBQ/L	MBQ/L	MBQ/L	AS NI	AS N	AS N	AS N	AS PB				
830126	1730	12329	420	180	420	150	0.006	3.660	15.500	1.790	0.003<	8.38			
830417	1700	12359	4200	990	5100	40	0.003	4.600	15.250	4.500	0.003<	7.794U			
830531	1430	12391	2200	540	4000	320	0.004	3.600	9.900	19.700	0.004	7.242U			
830626	1430	12423	4100	520	3100	290	0.002<	3.080	11.300	7.100	0.003<	9.134			
830831	1430	12487	1400	1500	4400	640	0.002<	3.020	13.050	3.300	0.003<	8.146			
830929	1430	12519	650	880	5400	340	0.002<		13.630	3.200	0.003<	8.129			
831109	1430	12551	1800	610	3600	490	0.002<	4.020	12.510	4.450	0.003<	9.44			
MAXIMUM			4200	1500	5400	640	0.006	4.600	15.500	19.700	0.004	9.44			
ARITH MEAN			2110	746	3717	324	0.004	3.663	13.020	6.251	0.004	8.32			
GEOM MEAN			1593	632	3016	249		3.624	12.881	4.730		8.29			
MINIMUM			420	180	420	40	0.003	3.020	9.900	1.790	0.004	7.242			
STD DEV (GEOM *)			1523	424	1661	200		0.594	2.019	6.135		0.76			
# SAMP IN STATISTICS			7	7	7	7	3	6	7	7	1	7			
% SAMP (EXCLUDED)							57				85				

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

157

B.O.W./ SITE: SERPENT RIVER TRIB  
 SAMPLE POINT: PANEL MINE TREATMENT PLANT OUTLET P14  
 STATION TYPE: INDUSTRIAL PROCESS

STATION ID: 14-0019-026-09

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 30 27.99 LONG: 082 32 21.51

U T M: 17 0381900.0 5151400.0 4

REGION: 05

DISTANCE: 80.321

*INTERIM TEST-NAME:		PPUT PHOSPHOR UNF.TOT. MG/L AS P	RA226F RADIUM 226 FIL. MBQ/L	SS04UR SULPHATE UNF.REAC MG/L AS S04	TURB TURB*ITY FTU	UUUT URANIUM UNF.TOT. MG/L AS U	UU238 URANIUM 238 UG/L	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER						
830126	1730	12329	0.006	40<	1262.00	0.78	0.086	3<
830417	1700	12359	0.010	290	1167.25	2.70	0.035	65
830531	1430	12391	0.010	160	952.00	0.89	0.040	33
830626	1430	12423	0.001<T	100	1164.50	0.70	0.013	16
830831	1430	12487	0.003<T	310	1209.00	0.58	0.014	17
830929	1430	12519	0.003<T	250	1321.00	0.95	0.005	8
831109	1430	12551	0.014	440	123.50	0.89	0.015	26
MAXIMUM		0.014	440	1321.00	2.70	0.086	65	0.015
ARITH MEAN		0.007<A	258	1028.46	1.07	0.030	27	0.005
GEOM MEAN		0.005<A		850.58	0.94	0.021		0.003
MINIMUM		0.001	100	123.50	0.58	0.005	8	0.001
STD DEV (GEOM *)		0.005<A		415.39	0.73	0.028		0.005
# SAMP IN STATISTICS		7	6	7	7	7	6	7
% SAMP (EXCLUDED)			14				14	

## 1983 WATER QUALITY DATA REGION 5

158

B.O.W./ SITE: ELLIOT LAKE

STATION ID: 14-0019-027-01

SAMPLE POINT: AT ELLIOT LAKE MUNICIPAL PUMPHOUSE 48 1  
STATION TYPE: LAKEMAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SERPENT RIVERSTORET CODE: 02  
002  
8040

LAT: 46 23 22.09 LONG: 082 39 53.05

U T M: 17 0372000.0 5138450.0 4

REGION: 05

DISTANCE: 76.442

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	CUUT	FEUT	FWSTRC	FWTEMP	GACF
SAMPLE DATE	YEAR	DEPTH	PROJECT	ALK	INFLECTN	CONDUCT.	COPPER	IRON		WATER	GROSS
YYMMDD	HOUR	M	SUB-PROJ	TOTAL	POINT	25C	UNF.TOT.	UNF.TOT.	STREAM	TEMP	ALPHA CT
YYMMDD	LMT	NUMBER	CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L	COND.	DEG.C	MBQ/L
			AS	CACO3	AS	AT 25 C	AS CU	AS FE			
830125	1400	12311	0101	10.1	7.44	315.0	0.004	0.095	2		120
830416	1500	12341	0101	2.1	-1.38U	13.6	0.002	0.010<T	3	1.0	220
830529	1600	12373	0101	6.3	3.21U	141.0	0.002	0.445	3	12.0	150
830624	1600	12405	0101	7.0	2.65	110.3	0.001	0.570	8	24.0	190
830829	1600	12469	0101	7.6	3.12	107.3	0.001	0.065	8	26.0	100
830927	1600	12501	0101	8.4	3.87	126.0	0.005	0.050		18.0	110
831107	1600	12533	0101	7.3	3.61	111.0	0.002	0.070	8	8.0	190
MAXIMUM		0.30		10.1	7.44	315.0	0.005	0.570		26.0	220
ARITH MEAN		0.30		7.0	3.22	132.0	0.002	0.186<A		14.8	154
GEOM MEAN				6.4		100.0	0.002	0.092<A		10.1	148
MINIMUM		0.30		2.1	-1.38	13.6	0.001	0.010		1.0	100
STD DEV (GEOM *)				2.5		90.5	0.002	0.224<A		9.6	46
# SAMP IN STATISTICS		7		7	7	7	7	7		6	7
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTR	NNOTFR	NNTKUR	PBUT	PH	PPUT
SAMPLE DATE	YEAR	GROSS	GROSS	GROSS	NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR
YYMMDD	HOUR	ALPHA CT	BETA CT	BETA CT	UNF.TOT.	TOTAL	FIL.REAC	FIL.REAC	UNF.TOT.	UNF.TOT.	UNF.TOT.
YYMMDD	LMT	MBQ/L	MBQ/L	MBQ/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
					AS NI	AS N	AS N	AS N	AS PB	PH	AS P
830125	1400	12311	40<	150	40<	0.002	0.234	0.740	0.003<	6.76	0.001<T
830416	1500	12341	40<	40<	40<	0.002<	0.210	0.440	0.003<	4.650U	0.008
830529	1600	12373	60	100	50	0.003	0.092	0.250	0.003<	6.872U	0.022
830624	1600	12405	40<	80	40<	0.002	0.034	0.190	0.003<	6.731	0.030
830829	1600	12469	60	50	50	0.002<	0.078	0.130	0.003<	6.678	0.007
830927	1600	12501	40<	100	40<	0.009	0.022	0.140	0.003<	6.698	0.013
831107	1600	12533	40<	80	40<	0.002<	0.060	0.145	0.003<	6.848	0.005
MAXIMUM		60	150	50	0.009	0.234	0.740	0.440		6.872	0.030
ARITH MEAN		60	93	50	0.004	0.087	0.258	0.322		6.46	0.012<A
GEOM MEAN						0.065	0.212	0.310		6.41	0.008<A
MINIMUM		60	50	50	0.002	0.022	0.130	0.220		4.650	0.001
STD DEV (GEOM *)						0.077	0.217	0.096		0.80	0.010<A
# SAMP IN STATISTICS		2	6	2	4	6	7	6		7	7
% SAMP (EXCLUDED)		71	14	71	42						

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

159

B.O.W./ SITE: ELLIOT LAKE  
 SAMPLE POINT: AT ELLIOT LAKE MUNICIPAL PUMPHOUSE 48 1  
 STATION TYPE: LAKE

STATION ID: 14-0019-027-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 23 22.09 LONG: 082 39 53.05

U T M: 17 0372000.0 5138450.0 4

REGION: 05

DISTANCE: 76.442

*INTERIM TEST-NAME:		RA226F	SS04UR SULPHATE	TURB	UUUT URANIUM	UU238	ZNUT ZINC
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	RADIUM 226 FIL. MBQ/L	UNF.REAC MG/L AS S04	TURB'ITY FTU	UNF.TOT. MG/L AS U	URANIUM 238 UG/L	UNF.TOT. MG/L AS ZN
830125 1400	12311	40<	23.87	0.62	0.002	3<	0.009
830416 1500	12341	40	1.79	0.81	0.001	3<	0.002
830529 1600	12373	40<	24.05	4.20	0.004	3<	0.010
830624 1600	12405	40<	18.25	0.50	0.004	3	0.007
830829 1600	12469	40<	18.45	0.68	0.001	3<	0.001<
830927 1600	12501	40<	20.04	1.20	0.001<	3<	0.002
831107 1600	12533	40<	19.46	1.30	0.002	3	0.005
MAXIMUM		40	24.05	4.20	0.004	3	0.010
ARITH MEAN		40	17.99	1.33	0.002	3	0.006
GEOM MEAN			14.50	1.02			
MINIMUM		40	1.79	0.50	0.001	3	0.002
STD DEV (GEOM *)			7.53	1.30			
# SAMP IN STATISTICS		1	7	7	6	2	6
% SAMP (EXCLUDED)		85			14	71	14



## 1983 WATER QUALITY DATA REGION 5

160

B.O.W./ SITE: DUNLOP LAKE  
 SAMPLE POINT: DUNLOP LAKE IN BAY A 18 1  
 STATION TYPE: LAKE

STATION ID: 14-0019-030-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 29 04.37 LONG: 082 39 21.27 U T M: 17 0372900.0 5149000.0 4 REGION: 05 DISTANCE: 93.822

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	CUUT	FEUT	FWPH	FWTEMP	GACF
				ALK	INFLECTN	CONDUCT.	COPPER	IRON			GROSS
SAMPLE		SAMPLE	PROJECT	TOTAL	POINT	25C	UNF.TOT.	UNF.TOT.		WATER	ALPHA CT
DATE	HR	NUMBER	SUB-PROJ	MG/L	MG/L	UMHO/CM	MG/L	MG/L	PH	TEMP	FILTERED
YYMMDD	LMT		CODE	AS CACO3	AS CACO3	AT 25 C	AS CU	AS FE	FIELD	DEG.C	MBQ/L
830615	1235	11640	0101	8.0	4.08	31.6	0.003	0.020<T	6.9	19.0	
831018	1320	11740	0101	8.2	3.85	31.6	0.001<	0.020<T	6.82	11.0	40<
MAXIMUM		0.30		8.2	4.08	31.6	0.003	0.020	6.9	19.0	
ARITH MEAN		0.30		8.1	3.96	31.6	0.003	0.020<A	6.9	15.0	
GEOM MEAN				8.1	3.96	31.6		0.020<A	6.9	14.5	
MINIMUM		0.30		8.0	3.85	31.6	0.003	0.020	6.82	11.0	
STD DEV (GEOM *)				0.1	0.16	0.0		0.000<A	0.1	5.7	
# SAMP IN STATISTICS		2		2	2	2	1	2	2	2	
% SAMP (EXCLUDED)							50				

*INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PPUT
		GROSS	GROSS	GROSS	NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR
SAMPLE		ALPHA CT	BETA CT	BETA CT	UNF.TOT.	TOTAL	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.	UNF.TOT.
DATE	HR	UNDISSOL	FILTERED	UNDISSOL	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
YYMMDD	LMT	MBQ/L	MBQ/L	MBQ/L	AS NI	AS N	AS N	AS N	AS PB	PH	AS P
830615	1235	11640			0.002<	0.014	0.035	0.200	0.003<	7.10	0.005
831018	1320	11740	40<	90	0.002<	0.014	0.030	0.200	0.003<	6.88	0.006
MAXIMUM			90			0.014	0.035	0.200		7.10	0.006
ARITH MEAN			90			0.014	0.032	0.200		6.99	0.005
GEOM MEAN						0.014	0.032	0.200		6.99	0.005
MINIMUM			90			0.014	0.030	0.200		6.88	0.005
STD DEV (GEOM *)						0.000	0.004	0.000		0.16	0.001
# SAMP IN STATISTICS			1			2	2	2		2	2
% SAMP (EXCLUDED)											

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

161

B.O.W./ SITE: DUNLOP LAKE  
 SAMPLE POINT: DUNLOP LAKE IN BAY A 18 1  
 STATION TYPE: LAKE

STATION ID: 14-0019-030-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 29 04.37 LONG: 082 39 21.27

U T M: 17 0372900.0 5149000.0 4

REGION: 05

DISTANCE: 93.822

*INTERIM TEST-NAME:		RA226F	SSO4UR	TURB	UUUT	UU238	ZNUT
		RADIUM	SULPHATE		URANIUM		ZINC
SAMPLE		226 FIL.	UNF.REAC		UNF.TOT.	URANIUM	UNF.TOT.
DATE	HR	MBQ/L	MG/L	TURB'ITY	MG/L	238	MG/L
YYMMDD	LMT	NUMBER	AS S04	FTU	AS U	UG/L	AS ZN
830615	1235	11640	6.30	0.45	0.001U		0.001
831018	1320	11740	40<	6.52	0.33	0.001<	3<
			6.52	0.45	0.001		0.001
			6.41	0.39	0.001		0.001
			6.41	0.39			0.001
			6.30	0.33	0.001		0.001
			0.16	0.08			0.000
			2	2	1		2
					50		

MAXIMUM  
 ARITH MEAN  
 GEOM MEAN  
 MINIMUM  
 STD DEV (GEOM \*)  
 # SAMP IN STATISTICS  
 % SAMP (EXCLUDED)

## 1983 WATER QUALITY DATA REGION 5

162

B.O.W./ SITE: QUIRKE LAKE  
 SAMPLE POINT: SOUTH WEST OF STANROCK MINE 25 4  
 STATION TYPE: LAKE

STATION ID: 14-0019-031-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 28 06.32 LONG: 082 34 14.73 U T M: 17 0379400.0 5147075.0 4 REGION: 05 DISTANCE: 85.454

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI ALK INFLECTN POINT	COND25 CONDUCT. 25C UMHO/CM AT 25 C	CUUT COPPER UNF.TOT. MG/L AS CU	FEUT IRON UNF.TOT. MG/L AS FE	FMPH PH FIELD	FWTEMP WATER TEMP DEG.C	GACF GROSS ALPHA CT FILTERED MBQ/L	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CACO3	COND25 CONDUCT. 25C UMHO/CM AT 25 C	CUUT COPPER UNF.TOT. MG/L AS CU	FEUT IRON UNF.TOT. MG/L AS FE	FMPH PH FIELD	FWTEMP WATER TEMP DEG.C	GACF GROSS ALPHA CT FILTERED MBQ/L	
830615	1255	11641	0.30	0101	4.9	1.82	0.007	0.020<T	6.44	15.0		
831018	1255	11738	0.30	0101	9.7	1.53	0.002	0.020<T	6.56	11.0	710	
MAXIMUM		0.30			9.7	1.82	0.007	0.020	6.56	15.0	710	
ARITH MEAN		0.30			7.3	1.67	0.004	0.020<A	6.50	13.0	710	
GEOM MEAN					6.9	1.67	0.004	0.020<A	6.50	12.8		
MINIMUM		0.30			4.9	1.53	0.002	0.020	6.44	11.0	710	
STD DEV (GEOM *)					3.4	0.21	0.004	0.000<A	0.08	2.8		
# SAMP IN STATISTICS		2			2	2	2	2	2	2	1	
% SAMP (EXCLUDED)												
*=INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC MG/L AS N	NNTKUR K*DAHL N TOTAL	PBUT LEAD UNF.TOT. MG/L AS PB	PH	PPUT PHOSPHOR UNF.TOT. MG/L AS P	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	NIUT UNF.TOT. MG/L AS NI	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N	NNOTFR NO2+NO3N FIL.REAC MG/L AS N	NNTKUR K*DAHL N TOTAL UNF.REAC MG/L AS N	PBUT LEAD UNF.TOT. MG/L AS PB	PH	PPUT PHOSPHOR UNF.TOT. MG/L AS P
830615	1255	11641				0.004		8.050	2.900	0.003<	6.78	0.003<T
831018	1255	11738	70	670	100	0.003	4.700	10.200	4.700	0.003<	6.40	0.008
MAXIMUM		70	670	100	0.004	4.700	10.200	4.700		6.78	0.008	
ARITH MEAN		70	670	100	0.003	4.700	9.125	3.800		6.59	0.005<A	
GEOM MEAN					0.003		9.061	3.692		6.59	0.005<A	
MINIMUM		70	670	100	0.003	4.700	8.050	2.900		6.40	0.003	
STD DEV (GEOM *)					0.001		1.520	1.273		0.27	0.004<A	
# SAMP IN STATISTICS		1	1	1	2	1	2	2	2	2	2	
% SAMP (EXCLUDED)												

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

163

B.O.W./ SITE: QUIRKE LAKE  
 SAMPLE POINT: SOUTH WEST OF STANROCK MINE 25 4  
 STATION TYPE: LAKE

STATION ID: 14-0019-031-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 28 06.32 LONG: 082 34 14.73 U T M: 17 0379400.0 5147075.0 4 REGION: 05 DISTANCE: 85.454

*INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT
		RADIUM	SULPHATE		URANIUM		ZINC
SAMPLE		226 FIL.	UNF.REAC		UNF.TOT.	URANIUM	UNF.TOT.
DATE HOUR	SAMPLE	MG/L	MG/L	TURB'ITY	MG/L	238	MG/L
YYMMDD LMT	NUMBER	MBQ/L	AS S04	FTU	AS U	UG/L	AS ZN
830615 1255	11641		170.00	1.15	0.0090		0.012
831018 1255	11738	70	201.10	0.37	0.013	6	0.009
	MAXIMUM	70	201.10	1.15	0.013	6	0.012
	ARITH MEAN	70	185.55	0.76	0.011	6	0.010
	GEOM MEAN		184.90	0.65	0.011		0.010
	MINIMUM	70	170.00	0.37	0.009	6	0.009
	STD DEV (GEOM *)		21.99	0.55	0.003		0.002
	# SAMP IN STATISTICS	1	2	2	2	1	2
	% SAMP (EXCLUDED)						

## 1983 WATER QUALITY DATA REGION 5

164

B.O.W./ SITE: QUIRKE LAKE  
 SAMPLE POINT: NORTH EAST OF CAN MET MINE 25 7  
 STATION TYPE: LAKE

STATION ID: 14-0019-032-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 29 13.97 LONG: 082 31 44.24 U T M: 17 0382650.0 5149100.0 4 REGION: 05 DISTANCE: 81.109

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	CUUT	FEUT	FMPH	FWTEMP	GACF
SAMPLE DATE	YHOUR	SAMPLE NUMBER	SAMPLE DEPTH	PROJECT SUB-PROJ	ALK TOTAL	INFLECTN POINT	CONDUCT. 25C	COPPER UNF.TOT.	IRON UNF.TOT.	PH FIELD	GROSS ALPHA CT
YYMMDD	LMT		M	CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L		MBQ/L
				AS CAC03	AS CAC03	AT 25 C	AS CU	AS FE		TEMP DEG.C	
830615	1305	11642	0.30	0101	6.2	1.70	476.0	0.003	0.015<T	6.40	16.0
831018	1254	11737	0.30	0101	3.6	1.55	518.0	0.002	0.035<T	6.47	900
MAXIMUM		0.30			6.2	1.70	518.0	0.003	0.035	6.47	900
ARITH MEAN		0.30			4.9	1.62	497.0	0.002	0.025<A	6.43	900
GEOM MEAN					4.7	1.62	496.6	0.002	0.023<A	6.43	13.3
MINIMUM		0.30			3.6	1.55	476.0	0.002	0.015	6.40	900
STD DEV (GEOM *)					1.8	0.11	29.7	0.001	0.014<A	0.05	3.5
# SAMP IN STATISTICS		2			2	2	2	2	2	2	1
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PPUT
SAMPLE DATE	YHOUR	GROSS ALPHA CT	GROSS BETA CT	GROSS BETA CT	NICKEL UNF.TOT.	NH3-N TOTAL	NO2+NO3N	K'DAHL N	LEAD UNF.TOT.		PHOSPHOR UNF.TOT.
YYMMDD	LMT	UNDISSOL	FILTERED	UNDISSOL	MG/L	FIL.REAC	FIL.REAC	MG/L	MG/L	AS PB	MG/L
		MBQ/L	MBQ/L	MBQ/L	AS NI	AS N	AS N	AS N	AS N		AS P
830615	1305	11642			0.005		8.640	3.200	0.003<	6.76	0.001<T
831018	1254	11737	70	740	0.002	4.350	9.500	4.350	0.003<	6.45	0.012
MAXIMUM		70	740	40	0.005	4.350	9.500	4.350		6.76	0.012
ARITH MEAN		70	740	40	0.003	4.350	9.070	3.775		6.60	0.006<A
GEOM MEAN					0.003		9.060	3.731		6.60	0.003<A
MINIMUM		70	740	40	0.002	4.350	8.640	3.200		6.45	0.001
STD DEV (GEOM *)					0.002		0.608	0.813		0.22	0.008<A
# SAMP IN STATISTICS		1	1	1	2	1	2	2		2	2
% SAMP (EXCLUDED)											

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

165

B.O.W./ SITE: QUIRKE LAKE  
 SAMPLE POINT: NORTH EAST OF CAN MET MINE 25 7  
 STATION TYPE: LAKE

STATION ID: 14-0019-032-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 29 13.97 LONG: 082 31 44.24

U T M: 17 0382650.0 5149100.0 4

REGION: 05

DISTANCE: 81.109

*INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT
		RADIUM	SULPHATE		URANIUM		ZINC
SAMPLE		226 FIL.	UNF.REAC	TURB'ITY	UNF.TOT.	URANIUM	UNF.TOT.
DATE	HR	MBQ/L	MG/L	FTU	MG/L	238	MG/L
YYNMDD	LMT	NUMBER	AS SO4		AS U	UG/L	AS ZN
830615	1305	11642	169.00	0.90	0.006U		0.012
831018	1254	11737	80	186.40	0.34	0.016	8
		MAXIMUM	80	186.40	0.90	0.016	8
		ARITH MEAN	80	177.70	0.62	0.011	8
		GEOM MEAN		177.49	0.55	0.010	
		MINIMUM	80	169.00	0.34	0.006	8
		STD DEV (GEOM *)		12.30	0.40	0.007	
		# SAMP IN STATISTICS	1	2	2	2	1
		% SAMP (EXCLUDED)					2

## 1983 WATER QUALITY DATA REGION 5

166

B.O.W./ SITE: QUIRKE LAKE  
 SAMPLE POINT: SOUTH EAST CORNER 25 6  
 STATION TYPE: LAKE

STATION ID: 14-0019-033-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

		LAT: 46 28 20.44		LONG: 082 31 49.77		U T M: 17 0382500.0 5147450.0 4		REGION: 05		DISTANCE: 83.040	
*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALTKI	COND25	CUUT	FEUT	FNPH	FWTEMP	GACF
				ALK	INFLECTN	CONDUCT.	COPPER	IRON			GROSS
SAMPLE		SAMPLE	PROJECT	TOTAL	POINT	25C	UNF.TOT.	UNF.TOT.		WATER	ALPHA CT
DATE	HOUR	NUMBER	SUB-PROJ	MG/L	MG/L	UMHO/CM	MG/L	MG/L	PH	TEMP	FILTERED
YYMMDD	LMT		CODE	AS CACO3	AS CACO3	AT 25 C	AS CU	AS FE	FIELD	DEG.C	MBQ/L
830615	1315	11643	0101	6.2	1.70	467.0	0.003	0.025<T	6.44	14.0	
831018	1235	11736	0101	7.0	1.44	536.0	0.002	0.025<T	6.42	11.0	880
MAXIMUM		0.30		7.0	1.70	536.0	0.003	0.025	6.44	14.0	880
ARITH MEAN		0.30		6.6	1.57	501.5	0.002	0.025<A	6.43	12.5	880
GEOM MEAN				6.6	1.56	500.3	0.002	0.025<A	6.43	12.4	
MINIMUM		0.30		6.2	1.44	467.0	0.002	0.025	6.42	11.0	880
STD DEV (GEOM *)				0.6	0.18	48.8	0.001	0.000<A	0.01	2.1	
# SAMP IN STATISTICS		2		2	2	2	2	2	2	2	1
% SAMP (EXCLUDED)											
*=INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PPUT
		GROSS	GROSS	GROSS	NICKEL	NH3-N	N02+N03N	K'DAHL N	LEAD		PHOSPHOR
SAMPLE		ALPHA CT	BETA CT	BETA CT	UNF.TOT.	TOTAL	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.
DATE	HOUR	UNDISSOL	FILTERED	UNDISSOL	MG/L	MG/L	MG/L	MG/L	MG/L	PH	MG/L
YYMMDD	LMT	MBQ/L	MBQ/L	MBQ/L	AS NI	AS N	AS N	AS N	AS PB		AS P
830615	1315	11643			0.004	4.000	8.300	4.000	0.003<	6.74	0.002<T
831018	1235	11736	40	680	0.004	4.500	9.850	4.500	0.003<	6.63	0.005
MAXIMUM		40	680	40	0.004	4.500	9.850	4.500		6.74	0.005
ARITH MEAN		40	680	40	0.004	4.250	9.075	4.250		6.68	0.003<A
GEOM MEAN					0.004	4.243	9.042	4.243		6.68	0.003<A
MINIMUM		40	680	40	0.004	4.000	8.300	4.000		6.63	0.002
STD DEV (GEOM *)					0.000	0.354	1.096	0.354		0.08	0.002<A
# SAMP IN STATISTICS		1	1	1	2	2	2	2	2	2	2
% SAMP (EXCLUDED)											

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

167

B.O.W./ SITE: QUIRKE LAKE  
 SAMPLE POINT: SOUTH EAST CORNER 25 6  
 STATION TYPE: LAKE

STATION ID: 14-0019-033-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 28 20.44 LONG: 082 31 49.77

U T M: 17 0382500.0 5147450.0 4

REGION: 05

DISTANCE: 83.040

*=INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT
		RADIUM	SULPHATE		URANIUM		ZINC
SAMPLE		226 FIL.	UNF. REAC		UNF. TOT.	URANIUM	UNF. TOT.
DATE	HOUR	MBQ/L	MG/L	TURB'ITY	MG/L	238	MG/L
YYMMDD	LMT	NUMBER	AS SO4	FTU	AS U	UG/L	AS ZN
830615	1315	11643	163.00	0.95	0.007U		0.014
831018	1235	11736	70	196.90	0.31	0.010	10
		MAXIMUM	70	196.90	0.95	0.010	10
		ARITH MEAN	70	179.95	0.63	0.008	10
		GEOM MEAN		179.15	0.54	0.008	
		MINIMUM	70	163.00	0.31	0.007	10
		STD DEV (GEOM *)		23.97	0.45	0.002	
		# SAMP IN STATISTICS	1	2	2	2	1
		% SAMP (EXCLUDED)					2



## 1983 WATER QUALITY DATA REGION 5

168

B.O.W./ SITE: QUIRKE LAKE  
 SAMPLE POINT: EAST OF DENISON MINE 25 2  
 STATION TYPE: LAKE

STATION ID: 14-0019-034-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 29 10.87 LONG: 082 35 31.64 U T M: 17 0377800.0 5149100.0 4 REGION: 05 DISTANCE: 85.776

*INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	ALKTI ALK	COND25	CUUT	FEUT	FMPH	FWTEMP	GACF
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	INFLECTN POINT MG/L AS CAC03	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	IRON UNF.TOT. MG/L AS FE	PH FIELD	GROSS ALPHA CT FILTERED MBQ/L
830615	1245	11644	0.30	0101	4.7	1.91	459.0	0.004	0.035<T	6.52	16.0
831018	1305	11739	0.30	0101	4.0	1.50	549.0	0.002	0.035<T	6.45	490
MAXIMUM		0.30			4.7	1.91	549.0	0.004	0.035	6.52	490
ARITH MEAN		0.30			4.3	1.70	504.0	0.003	0.035<A	6.48	490
GEOM MEAN					4.3	1.69	502.0	0.003	0.035<A	6.48	13.3
MINIMUM		0.30			4.0	1.50	459.0	0.002	0.035	6.45	490
STD DEV (GEOM *)					0.5	0.29	63.6	0.001	0.000<A	0.05	3.5
# SAMP IN STATISTICS		2			2	2	2	2	2	2	1
% SAMP (EXCLUDED)											
*INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR NH3-N	NNOTFR	NNTKUR K'DAHL N	PBUT	PH	PPUT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	NICKEL UNF.TOT. MG/L AS NI	TOTAL FIL.REAC MG/L AS N	NO2+NO3N FIL.REAC MG/L AS N	TOTAL UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PHOSPHOR UNF.TOT. MG/L AS P
830615	1245	11644				0.003	3.950	8.060	4.100	0.003<	0.001<T
831018	1305	11739	60	780	80	0.004	4.650	10.100	4.650	0.003<	0.006
MAXIMUM		60	780	80	0.004	4.650	10.100	4.650		6.89	0.006
ARITH MEAN		60	780	80	0.003	4.300	9.080	4.375		6.66	0.003<A
GEOM MEAN					0.003	4.286	9.023	4.366		6.66	0.002<A
MINIMUM		60	780	80	0.003	3.950	8.060	4.100		6.43	0.001
STD DEV (GEOM *)					0.001	0.495	1.442	0.389		0.33	0.004<A
# SAMP IN STATISTICS		1	1	1	2	2	2	2		2	2
% SAMP (EXCLUDED)											

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

169

B.O.W./ SITE: QUIRKE LAKE  
 SAMPLE POINT: EAST OF DENISON MINE 25 2  
 STATION TYPE: LAKE

STATION ID: 14-0019-034-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 29 10.87 LONG: 082 35 31.64 U T M: 17 0377800.0 5149100.0 4 REGION: 05 DISTANCE: 85.776

*INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT
		RADIUM	SULPHATE		URANIUM		ZINC
SAMPLE		226 FIL.	UNF.REAC		UNF.TOT.	URANIUM	UNF.TOT.
DATE	HOUR	MBQ/L	MG/L	TURB'ITY	MG/L	238	MG/L
YYMMDD	LMT	NUMBER	AS SO4	FTU	AS U	UG/L	AS ZN
830615	1245	11644	161.00	1.10	0.009U		0.011
831018	1305	11739	90	201.30	0.36	0.001<	8
							0.009
		MAXIMUM	90	201.30	1.10	0.009	8
		ARITH MEAN	90	181.15	0.73	0.009	8
		GEOM MEAN		180.03	0.63		
		MINIMUM	90	161.00	0.36	0.009	8
		STD DEV (GEOM *)		28.50	0.52		
		# SAMP IN STATISTICS	1	2	2	1	2
		% SAMP (EXCLUDED)			50		

## 1983 WATER QUALITY DATA REGION 5

170

B.O.W./ SITE: WHISKEY LAKE  
 SAMPLE POINT: SOUTH END NEAR RUM POINT 29 4  
 STATION TYPE: LAKE

STATION ID: 14-0019-035-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 24 27.28 LONG: 082 20 56.90 U T M: 17 0396300.0 5140000.0 4 REGION: 05 DISTANCE: 59.383

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	CUUT	FEUT	FVPH	FWTEMP	GACF	
SAMPLE DATE	HOUR	SAMPLE NUMBER	SAMPLE DEPTH	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	INFLECTN POINT MG/L AS CAC03	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	IRON UNF.TOT. MG/L AS FE	PH FIELD	WATER TEMP DEG.C	GROSS ALPHA CT FILTERED MBQ/L
830615	1450	11645	0.30	0101	7.1	0.95	333.0	0.003	0.020<T	6.17	17.0	
831018	1130	11732	0.30	0101	3.5	0.69	365.0	0.001	0.025<T	6.05	11.0	370
MAXIMUM			0.30		7.1	0.95	365.0	0.003	0.025	6.17	17.0	370
ARITH MEAN			0.30		5.3	0.82	349.0	0.002	0.022<A	6.11	14.0	370
GEOM MEAN					5.0	0.81	348.6	0.002	0.022<A	6.11	13.7	
MINIMUM			0.30		3.5	0.69	333.0	0.001	0.020	6.05	11.0	370
STD DEV (GEOM *)					2.5	0.18	22.6	0.001	0.004<A	0.08	4.2	
# SAMP IN STATISTICS			2		2	2	2	2	2	2	2	1
% SAMP (EXCLUDED)												
*=INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PPUT	
SAMPLE DATE	HOUR	SAMPLE NUMBER	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	NICKEL UNF.TOT. MG/L AS NI	TOTAL FIL.REAC MG/L AS N	NO2+NO3N FIL.REAC MG/L AS N	TOTAL UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PHOSPHOR UNF.TOT. MG/L AS P	
830615	1450	11645				0.003	2.200	6.240	2.400	0.003<	7.23	0.001<T
831018	1130	11732	40<	820	40<	0.003	2.280	6.900	2.850	0.003<	6.26	0.009
MAXIMUM				820		0.003	2.280	6.900	2.850		7.23	0.009
ARITH MEAN				820		0.003	2.240	6.570	2.625		6.74	0.005<A
GEOM MEAN						0.003	2.240	6.562	2.615		6.73	0.003<A
MINIMUM				820		0.003	2.200	6.240	2.400		6.26	0.001
STD DEV (GEOM *)						0.000	0.057	0.467	0.318		0.69	0.006<A
# SAMP IN STATISTICS				1		2	2	2	2		2	2
% SAMP (EXCLUDED)												

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

171

B.O.W./ SITE: WHISKEY LAKE  
 SAMPLE POINT: SOUTH END NEAR RUM POINT 29 4  
 STATION TYPE: LAKE

STATION ID: 14-0019-035-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 24 27.28 LONG: 082 20 56.90 U T M: 17 0396300.0 5140000.0 4 REGION: 05 DISTANCE: 59.383

*INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT
		RADIUM	SULPHATE		URANIUM		ZINC
SAMPLE		226 FIL.	UNF.REAC		UNF.TOT.	URANIUM	UNF.TOT.
DATE	HR	MBQ/L	MG/L	TURB'ITY	MG/L	238	MG/L
YYMMDD	LHT	NUMBER	AS S04	FTU	AS U	UG/L	AS ZN
830615	1450	11645	118.00	0.85	0.006U		0.014
831018	1130	11732	124.90	0.29	0.006	3	0.009
MAXIMUM		80	124.90	0.85	0.006	3	0.014
ARITH MEAN		80	121.45	0.57	0.006	3	0.011
GEOM MEAN			121.40	0.50	0.006		0.011
MINIMUM		80	118.00	0.29	0.006	3	0.009
STD DEV (GEOM *)			4.88	0.40	0.000		0.004
# SAMP IN STATISTICS		1	2	2	2	1	2
% SAMP (EXCLUDED)							

## 1983 WATER QUALITY DATA REGION 5

172

B.O.W./ SITE: MCCABE LAKE  
 SAMPLE POINT: CENTRE OF LAKE 35 1  
 STATION TYPE: LAKE

STATION ID: 14-0019-036-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 25 22.23 LONG: 082 33 50.11 U T M: 17 0379825.0 5142000.0 4 REGION: 05 DISTANCE: 69.522

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI ALK	COND25	CUUT	FEUT	FMPH	FNTMP	GACF
SAMPLE DATE YYMMDD	HR LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CACO3	INFLECTN POINT MG/L AS CACO3	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	IRON UNF.TOT. MG/L AS FE	PH FIELD	GROSS ALPHA CT FILTERED MBQ/L
830615	1330	11646	0.30	0101	15.0	11.19	286.0	0.006	0.065	7.28	20.0
831018	1130	11733	0.30	0101	14.0	10.47	318.0	0.001	0.050	7.20	1200
MAXIMUM		0.30			15.0	11.19	318.0	0.006	0.065	7.28	20.0
ARITH MEAN		0.30			14.5	10.83	302.0	0.003	0.057	7.24	15.5
GEOM MEAN					14.5	10.82	301.6	0.002	0.057	7.24	14.8
MINIMUM		0.30			14.0	10.47	286.0	0.001	0.050	7.20	1200
STD DEV (GEOM *)					0.7	0.51	22.6	0.004	0.011	0.06	6.4
# SAMP IN STATISTICS		2			2	2	2	2	2	2	1
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PPUT
SAMPLE DATE YYMMDD	HR LMT	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	NICKEL UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PH	PHOSPHOR UNF.TOT. MG/L AS P
830615	1330	11646			0.002<	0.144	0.520	0.310	0.003<	7.42	0.003<T
831018	1130	11733	40<	700	0.002<	0.024	0.560	0.270	0.003<	7.27	0.009
MAXIMUM			700			0.144	0.560	0.310		7.42	0.009
ARITH MEAN			700			0.084	0.540	0.290		7.34	0.006<A
GEOM MEAN						0.059	0.540	0.289		7.34	0.005<A
MINIMUM			700			0.024	0.520	0.270		7.27	0.003
STD DEV (GEOM *)						0.085	0.028	0.028		0.11	0.004<A
# SAMP IN STATISTICS			1			2	2	2		2	2
% SAMP (EXCLUDED)											

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

173

B.O.W./ SITE: MCCABE LAKE  
 SAMPLE POINT: CENTRE OF LAKE 35 1  
 STATION TYPE: LAKE

STATION ID: 14-0019-036-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 25 22.23 LONG: 082 33 50.11

U T M: 17 0379825.0 5142000.0 4

REGION: 05

DISTANCE: 69.522

*INTERIM TEST-NAME:		RA226F	SS04UR SULPHATE	TURB	UUUT URANIUM	UU238 URANIUM	ZNUT ZINC
SAMPLE DATE	HOUR	RADIUM 226 FIL.	UNF.REAC MG/L	TURB'ITY FTU	UNF.TOT. MG/L	238 UG/L	UNF.TOT. MG/L
YYMMDD	LMT	SAMPLE NUMBER	MBQ/L	AS S04	AS U		AS ZN
830615	1330	11646	93.60	0.80	0.002U		0.003
831018	1130	11733	370	105.60	0.76	0.001<	3< 0.001<
MAXIMUM		370	105.60	0.80	0.002		0.003
ARITH MEAN		370	99.60	0.78	0.002		0.003
GEOM MEAN			99.42	0.78			
MINIMUM		370	93.60	0.76	0.002		0.003
STD DEV (GEOM *)			8.49	0.03			
# SAMP IN STATISTICS		1	2	2	1		1
% SAMP (EXCLUDED)					50		50

## 1983 WATER QUALITY DATA REGION 5

174

B.O.W./ SITE: CAMP LAKE  
 SAMPLE POINT: AT SOUTH END 55 1  
 STATION TYPE: LAKE

STATION ID: 14-0019-037-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 14 06.00		LONG: 082 26 29.49		U T M: 17 0388850.0 5120950.0 4		REGION: 05		DISTANCE: 16.737			
*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI ALK INFLECTN	COND25 CONDUCT. 25C UMHO/CM AT 25 C	CUUT COPPER UNF.TOT. MG/L AS CU	FEUT IRON UNF.TOT. MG/L AS FE	FWPH PH FIELD	FWTEMP WATER TEMP DEG.C	GACF GROSS ALPHA CT FILTERED MBQ/L
SAMPLE DATE YYMMDD	HOURLMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	COND25 CONDUCT. 25C UMHO/CM AT 25 C	CUUT COPPER UNF.TOT. MG/L AS CU	FEUT IRON UNF.TOT. MG/L AS FE	FWPH PH FIELD	FWTEMP WATER TEMP DEG.C	GACF GROSS ALPHA CT FILTERED MBQ/L
831018	1047	11729	0.30	0101	5.4	248.0	0.001	0.070	6.49	11.0	1700
		MAXIMUM	0.30		5.4	248.0	0.001	0.070	6.49	11.0	1700
		ARITH MEAN	0.30		5.4	248.0	0.001	0.070	6.49	11.0	1700
		GEOM MEAN									
		MINIMUM	0.30		5.4	248.0	0.001	0.070	6.49	11.0	1700
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS	1		1	1	1	1	1	1	1
		% SAMP (EXCLUDED)									
*=INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N	NNOTFR NO2+NO3N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PBUT LEAD UNF.TOT. MG/L AS PB	PH	PPUT PHOSPHOR UNF.TOT. MG/L AS P
SAMPLE DATE YYMMDD	HOURLMT	SAMPLE NUMBER	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	NIUT UNF.TOT. MG/L AS NI	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N	NNOTFR NO2+NO3N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PBUT LEAD UNF.TOT. MG/L AS PB	PPUT PHOSPHOR UNF.TOT. MG/L AS P
831018	1047	11729	40<	270	40<	0.002<	0.360	3.350	0.570	0.003<	0.010
		MAXIMUM		270			0.360	3.350	0.570	6.70	0.010
		ARITH MEAN		270			0.360	3.350	0.570	6.70	0.010
		GEOM MEAN									
		MINIMUM		270			0.360	3.350	0.570	6.70	0.010
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS		1			1	1	1	1	1
		% SAMP (EXCLUDED)									
*=INTERIM TEST-NAME:		RA226F	SS04UR SULPHATE UNF.REAC MG/L AS S04	TURB	UUUT URANIUM UNF.TOT. MG/L AS U	UU238 URANIUM 238 UG/L	ZNUT ZINC UNF.TOT. MG/L AS ZN				
SAMPLE DATE YYMMDD	HOURLMT	SAMPLE NUMBER	RADIUM 226 FIL. MBQ/L	TURB ITY FTU	UUUT URANIUM UNF.TOT. MG/L AS U	UU238 URANIUM 238 UG/L	ZNUT ZINC UNF.TOT. MG/L AS ZN				
831018	1047	11729	60	80.90	0.73	0.002	3<	0.002			
		MAXIMUM	60	80.90	0.73	0.002		0.002			
		ARITH MEAN	60	80.90	0.73	0.002		0.002			
		GEOM MEAN									
		MINIMUM	60	80.90	0.73	0.002		0.002			
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS	1	1	1	1		1			
		% SAMP (EXCLUDED)									

## 1983 WATER QUALITY DATA REGION 5

175

B.O.W./ SITE: SERPENT HARBOUR  
 SAMPLE POINT: NEAR HOSPITAL POINT 08 2  
 STATION TYPE: LAKE

STATION ID: 14-0019-038-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 11 55.43 LONG: 082 40 32.93 U T M: 17 0370700.0 5117275.0 4 REGION: 05

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	CUUT	FEUT	FWPH	FNTMP	GACF
SAMPLE DATE	YEAR MONTH DAY	SAMPLE DEPTH	PROJECT SUB-PROJ	ALK TOTAL	INFLECTN POINT	CONDUCT. 25C	COPPER UNF.TOT.	IRON UNF.TOT.	PH FIELD	WATER TEMP	GROSS ALPHA CT
YYMMDD	LMT	M	CODE	AS CAC03	AS CAC03	UMHO/CM AT 25 C	MG/L AS CU	MG/L AS FE		DEG.C	MBQ/L
830615	1200	11648	0.30	0101	6.4	2.92	180.0	0.005	0.055	6.70	21.0
831018	1020	11728	0.30	0101	44.1	38.40	156.0	0.001	0.135	7.83	150
MAXIMUM		0.30			44.1	38.40	180.0	0.005	0.135	7.83	150
ARITH MEAN		0.30			25.2	20.66	168.0	0.003	0.095	7.26	150
GEOM MEAN					16.8	10.59	167.6	0.002	0.086	7.24	15.2
MINIMUM		0.30			6.4	2.92	156.0	0.001	0.055	6.70	150
STD DEV (GEOM *)					26.7	25.09	17.0	0.003	0.057	0.80	7.1
# SAMP IN STATISTICS		2			2	2	2	2	2	2	1
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PPUT
SAMPLE DATE	YEAR MONTH DAY	GROSS ALPHA CT	GROSS BETA CT	GROSS BETA CT	NICKEL UNF.TOT.	NH3-N TOTAL	NO2+NO3N	K'DAHL N TOTAL	LEAD UNF.TOT.	PH	PHOSPHOR UNF.TOT.
YYMMDD	LMT	MBQ/L	MBQ/L	MBQ/L	MG/L AS NI	FIL.REAC	FIL.REAC	MG/L AS N	MG/L AS N	AS PB	MG/L AS P
830615	1200	11648			0.002<	0.530	2.340	0.700	0.003<	6.72	0.003<T
831018	1020	11728	40<	110	0.003	0.038	0.580	0.270	0.003<	7.77	0.011
MAXIMUM			110		0.003	0.530	2.340	0.700		7.77	0.011
ARITH MEAN			110		0.003	0.284	1.460	0.485		7.24	0.007<A
GEOM MEAN						0.142	1.165	0.435		7.23	0.006<A
MINIMUM			110		0.003	0.038	0.580	0.270		6.72	0.003
STD DEV (GEOM *)						0.348	1.245	0.304		0.74	0.006<A
# SAMP IN STATISTICS			1		1	2	2	2		2	2
% SAMP (EXCLUDED)					50						

( C O N T D )



## 1983 WATER QUALITY DATA REGION 5

176

B.O.W./ SITE: SERPENT HARBOUR  
 SAMPLE POINT: NEAR HOSPITAL POINT 08 2  
 STATION TYPE: LAKE

STATION ID: 14-0019-038-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 11 55.43 LONG: 082 40 32.93 U T M: 17 0370700.0 5117275.0 4 REGION: 05

*=INTERIM		TEST-NAME:	RA226F	SS04UR	TURB	UUUT	UU238	ZNUT
			RADIUM	SULPHATE		URANIUM		ZINC
SAMPLE			UNF.REAC		UNF.TOT.	URANIUM	UNF.TOT.	
DATE	HOUR	SAMPLE	MG/L	TURB'ITY	MG/L	238	MG/L	
YYMMDD	LMT	NUMBER	AS S04	FTU	AS U	UG/L	AS ZN	
830615	1200	11648	64.28	0.60	0.001U		0.007	
831018	1020	11728	40<	21.98	0.001<	3<	0.001	
MAXIMUM			64.28	1.27	0.001		0.007	
ARITH MEAN			43.13	0.93	0.001		0.004	
GEOM MEAN			37.59	0.87			0.003	
MINIMUM			21.98	0.60	0.001		0.001	
STD DEV (GEOM *)			29.91	0.47			0.004	
# SAMP IN STATISTICS			2	2	1		2	
% SAMP (EXCLUDED)					50			

## 1983 WATER QUALITY DATA REGION 5

177

B.O.W./ SITE: MCCARTHY LAKE  
 SAMPLE POINT: AT WEST END 53 1  
 STATION TYPE: LAKE

STATION ID: 14-0019-039-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 19 45.02 LONG: 082 29 05.71 U T M: 17 0385700.0 5131475.0 4 REGION: 05 DISTANCE: 40.876

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI ALK INFLECTN	COND25 CONDUCT. 25C	CUUT	FEUT	FWPH	FWTEMP	GACF
SAMPLE DATE	HR	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	POINT MG/L AS CAC03	UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	IRON UNF.TOT. MG/L AS FE	PH FIELD	GROSS ALPHA CT FILTERED MBQ/L
830615	1530	11649	0.30	0101	12.4	6.69	166.0	0.006	0.030<T	7.14	22.0
831018	1117	11731	0.30	0101	8.5	5.63	228.0	0.001	0.065	6.81	11.0
		MAXIMUM	0.30		12.4	6.69	228.0	0.006	0.065	7.14	22.0
		ARITH MEAN	0.30		10.4	6.16	197.0	0.003	0.047<A	6.97	16.5
		GEOM MEAN			10.3	6.14	194.5	0.002	0.044<A	6.97	15.6
		MINIMUM	0.30		8.5	5.63	166.0	0.001	0.030	6.81	11.0
		STD DEV (GEOM *)			2.8	0.75	43.8	0.004	0.025<A	0.23	7.8
		# SAMP IN STATISTICS	2		2	2	2	2	2	2	1
		% SAMP (EXCLUDED)									
*INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PPUT
SAMPLE DATE	HR	SAMPLE NUMBER	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	NICKEL UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PHOSPHOR UNF.TOT. MG/L AS P
830615	1530	11649				0.002<	0.124	0.485	0.470	0.003<	7.61
831018	1117	11731	90	240	40<	0.002<	0.510	2.500	0.820	0.003<	6.85
		MAXIMUM	90	240			0.510	2.500	0.820		7.61
		ARITH MEAN	90	240			0.317	1.492	0.645		7.23
		GEOM MEAN					0.251	1.101	0.621		7.22
		MINIMUM	90	240			0.124	0.485	0.470		6.85
		STD DEV (GEOM *)					0.273	1.425	0.247		9.54
		# SAMP IN STATISTICS	1	1			2	2	2	2	2
		% SAMP (EXCLUDED)									

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

178

B.O.W./ SITE: MCCARTHY LAKE  
 SAMPLE POINT: AT WEST END 53 1  
 STATION TYPE: LAKE

STATION ID: 14-0019-039-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 19 45.02 LONG: 082 29 05.71 U T M: 17 0385700.0 5131475.0 4 REGION: 05 DISTANCE: 40.876

*=INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT
		RADIUM	SULPHATE		URANIUM		ZINC
SAMPLE		226 FIL.	UNF.REAC		UNF.TOT.	URANIUM	UNF.TOT.
DATE	HR	MBQ/L	MG/L	TURB'ITY	MG/L	238	MG/L
YYMMDD	LHT	NUMBER	AS S04	FTU	AS U	UG/L	AS ZN
830615	1530	11649	49.84	0.95	0.001U		0.008
831018	1117	11731	60	0.63	0.001<	3<	0.003
MAXIMUM		60	69.60	0.95	0.001		0.008
ARITH MEAN		60	59.72	0.79	0.001		0.005
GEOM MEAN			58.90	0.77			0.005
MINIMUM		60	49.84	0.63	0.001		0.003
STD DEV (GEOM *)			13.97	0.23			0.004
# SAMP IN STATISTICS		1	2	2	1		2
% SAMP (EXCLUDED)					50		

## 1983 WATER QUALITY DATA REGION 5

179

B.O.W./ SITE: MCCARTHY LAKE  
 SAMPLE POINT: AT SOUTH END 53 3  
 STATION TYPE: LAKE

STATION ID: 14-0019-040-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 18 29.74 LONG: 082 26 55.11 U T M: 17 0388450.0 5129100.0 4 REGION: 05 DISTANCE: 36.692

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI ALK INFLECTN	COND25 CONDUCT. 25C	CUUT COPPER UNF.TOT.	FEUT IRON UNF.TOT.	FMPH PH FIELD	FNTMP WATER TEMP	GACF GROSS ALPHA CT FILTERED
DATE	HOUR	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	UMHO/CH AT 25 C	MG/L AS CU	MG/L AS FE		DEG.C	MBQ/L
830615	1540	11650	0.30	0101	5.7	227.0	0.002	0.025<T	6.66	19.0	
831018	1105	11730	0.30	0101	4.5	254.0	0.001	0.015<T	6.40	11.0	320
MAXIMUM			0.30		5.7	254.0	0.002	0.025	6.66	19.0	320
ARITH MEAN			0.30		5.1	240.5	0.001	0.020<A	6.53	15.0	320
GEOM MEAN					5.1	240.1	0.001	0.019<A	6.53	14.5	
MINIMUM			0.30		4.5	227.0	0.001	0.015	6.40	11.0	320
STD DEV (GEOM *)					0.8	19.1	0.001	0.007<A	0.18	5.7	
# SAMP IN STATISTICS			2		2	2	2	2	2	2	1
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PPUT PHOSPHOR UNF.TOT.
DATE	HOUR	SAMPLE NUMBER	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	NICKEL UNF.TOT. MG/L AS NI	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	MG/L AS P
830615	1540	11650				0.003	0.900	3.120	1.200	0.003<	0.008
831018	1105	11730	40<	340	40<	0.002<	0.720	3.700	0.900	0.003	0.010
MAXIMUM				340		0.003	0.900	3.700	1.200	0.003	0.010
ARITH MEAN				340		0.003	0.810	3.410	1.050	0.003	0.009
GEOM MEAN							0.805	3.398	1.039		0.009
MINIMUM				340		0.003	0.720	3.120	0.900	0.003	0.008
STD DEV (GEOM *)							0.127	0.410	0.212	0.10	0.001
# SAMP IN STATISTICS				1		1	2	2	2	1	2
% SAMP (EXCLUDED)						50				50	

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

180

B.O.W./ SITE: MCCARTHY LAKE  
 SAMPLE POINT: AT SOUTH END 53 3  
 STATION TYPE: LAKE

STATION ID: 14-8019-040-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 18 29.74 LONG: 082 26 55.11

U T M: 17 0388450.0 5129100.0 4

REGION: 05

DISTANCE: 36.692

*INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT
			SULPHATE		URANIUM		ZINC
SAMPLE		RADIUM	UNF.REAC		UNF.TOT.	URANIUM	UNF.TOT.
DATE	HOUR	226 FIL.	MG/L	TURB*ITY	MG/L	238	MG/L
YYMMDD	LMT	NUMBER	MBQ/L	AS S04	AS U	UG/L	AS ZN
830615	1540	11650	70.90	0.55	0.002U		0.010
831018	1105	11730	70	0.42	0.002	3<	0.006
MAXIMUM		70	82.30	0.55	0.002		0.010
ARITH MEAN		70	76.60	0.48	0.002		0.008
GEOM MEAN			76.39	0.48	0.002		0.008
MINIMUM		70	70.90	0.42	0.002		0.006
STD DEV (GEOM *)			8.06	0.09	0.000		0.003
# SAMP IN STATISTICS		1	2	2	2		2
% SAMP (EXCLUDED)							

## 181

STORET CODE: 02  
002  
8040

*INTERIM		TEST-NAME:	GACP	GBCF	GBCP	NIUT	NNHTFR NH3-N	NNOTFR	NNTKUR K'DAHL N	PBUT	PH	PPUT
			GROSS ALPHA CT	GROSS BETA CT	GROSS BETA CT	NICKEL UNF. TOT.	TOTAL FIL. REAC	N02+N03N FIL. REAC	TOTAL UNF. REAC	LEAD UNF. TOT.		PHOSPHOR UNF. TOT.
SAMPLE DATE	HR	SAMPLE YHMD LHT	UNDISSOL MBQ/L	UNDISSOL MBQ/L	UNDISSOL MBQ/L	MG/L AS NI	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB		MG/L AS P
830615	1430	11651				0.002	0.246	0.315	0.400	0.003<	7.84	0.002<T
831018	1145	11742	40<	270	40<	0.002<	0.124	0.315	0.300	0.003<	7.12	0.015
MAXIMUM				270		0.002	0.246	0.315	0.400		7.84	0.015
ARITH MEAN				270		0.002	0.185	0.315	0.350		7.48	0.008<A
GEOM MEAN							0.175	0.315	0.346		7.47	0.005<A
MINIMUM				270		0.002	0.124	0.315	0.300		7.12	0.002
STD DEV (GEOM *)							0.086	0.000	0.071		0.51	0.009<A
# SAMP IN STATISTICS				1		1	2	2	2		2	2
% SAMP (EXCLUDED)						50						

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

182

B.O.W./ SITE: HOUGH LAKE  
 SAMPLE POINT: CENTRE OF LAKE  
 STATION TYPE: LAKE

STATION ID: 14-0019-041-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 24 32.22 LONG: 082 29 32.24 U T M: 17 0385300.0 5140350.0 4 REGION: 05 DISTANCE: 56.808

*INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT
		RADIUM	SULPHATE		URANIUM		ZINC
SAMPLE		226 FIL.	UNF.REAC		UNF.TOT.	URANIUM	UNF.TOT.
DATE	HOUR	MBQ/L	MG/L	TURB'ITY	MG/L	238	MG/L
YYMMDD	LHT	NUMBER	AS S04	FTU	AS U	UG/L	AS ZN
830615	1430	11651	81.80	0.70	0.001U		0.006
831018	1145	11742	100	0.35	0.001<	3<	0.001
MAXIMUM		100	82.40	0.70	0.001		0.006
ARITH MEAN		100	82.10	0.52	0.001		0.003
GEOM MEAN			82.10	0.49			0.002
MINIMUM		100	81.80	0.35	0.001		0.001
STD DEV (GEOM *)			0.42	0.25			0.004
# SAMP IN STATISTICS		1	2	2	1		2
% SAMP (EXCLUDED)					50		

## 183

STORET CODE: 02  
002  
8040

[illegible]



## 1983 WATER QUALITY DATA REGION 5

: 184

B.O.W./ SITE: WESTNER LAKE  
 SAMPLE POINT: AT SKI CLUB ROAD N 15  
 STATION TYPE: LAKE

STATION ID: 14-0019-044-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 22 59.80 LONG: 082 37 33.09

U T M: 17 0374975.0 5137700.0 4

REGION: 05

DISTANCE: 75.798

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKI ALK	COND25	FWSTRC	FWTEMP	GACF	GACP	GBCF
SAMPLE DATE	HOUR	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	INFLECTN POINT MG/L AS CAC03	CONDUCT. 25C UMHO/CM AT 25 C	WATER TEMP DEG.C	GROSS ALPHA CT FILTERED MBQ/L	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L
YYMMDD	LMT						STREAM COND.				
830125	1230	12310	0.30	0101		-1.43<T	462.0	2	470	90	370
830416	1430	12340	0.30	0101	0.0	-8.39U	238.0	3	580	90	330
830529	1530	12372	0.30	0101	0.0	-10.00U	367.0	3	890	40<	480
830624	1530	12404	0.30	0101	2.4	-3.12<T	467.0	8	650	40<	520
830829	1530	12468	0.30	0101	5.7	2.39	557.0	8	300	70	190
830927	1530	12500	0.30	0101	16.5	12.34	581.0	15.0	100	40<	170
		MAXIMUM	0.30		16.5	12.34	581.0	21.0	890	90	520
		ARITH MEAN	0.30		4.9	-1.37<A	445.3	14.0	498	83	343
		GEOM MEAN					427.4	9.6	410		315
		MINIMUM	0.30		0.0	-10.00	238.0	1.0	100	70	170
		STD DEV (GEOM *)					127.1	8.0	276		144
		# SAMP IN STATISTICS	6		5	6	6	5	6	3	6
		% SAMP (EXCLUDED)								50	
*=INTERIM TEST-NAME:		GBCP	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PH	PPUT PHOSPHOR UNF.TOT. MG/L AS P	RA226F RADIUM 226 FIL. MBQ/L	SS04UR SULPHATE UNF.REAC MG/L AS S04	TURB TURB*ITY FTU	UUUT URANIUM UNF.TOT. MG/L AS U
SAMPLE DATE	HOUR	SAMPLE NUMBER	GROSS BETA CT UNDISSOL MBQ/L			PH					
YYMMDD	LMT										
830125	1230	12310	70	0.470	0.240	0.630	4.77	0.004	70	99.70	0.004
830416	1430	12340	60	0.300	0.170	0.450	3.901U	0.010	60	84.25	0.002
830529	1530	12372	40<	0.208	0.155	0.290	3.762U	0.010	90	113.00	0.011PNS
830624	1530	12404	40<	0.028	0.225	0.140	4.323	0.003	70	106.20	0.003
830829	1530	12468	50	0.160	0.180	0.500	6.138	0.011	50	66.70	11.50
830927	1530	12500	40<	0.078	0.100	0.320	6.925	0.035	40<	53.86	3.10
		MAXIMUM	70	0.470	0.240	0.630	6.925	0.035	90	113.00	11.50
		ARITH MEAN	60	0.207	0.178	0.388	4.97	0.012	68	87.28	5.12
		GEOM MEAN		0.147	0.172	0.350	4.84	0.009		84.43	3.78
		MINIMUM	50	0.028	0.100	0.140	3.762	0.003	50	53.86	0.80
		STD DEV (GEOM *)		0.160	0.050	0.174	1.28	0.012		23.34	3.85
		# SAMP IN STATISTICS	3	6	6	6	6	6	5	6	5
		% SAMP (EXCLUDED)	50						16		

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

185

B.O.W./ SITE: WESTNER LAKE  
SAMPLE POINT: AT SKI CLUB ROAD N 15  
STATION TYPE: LAKE

STATION ID: 14-0019-044-01

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SERPENT RIVER

STORET CODE: 02  
002  
8040

LAT: 46 22 59.80 LONG: 082 37 33.09 U T M: 17 0374975.0 5137700.0 4 REGION: 05 DISTANCE: 75.798

\*-INTERIM TEST-NAME: UU238

SAMPLE DATE	HOUR	SAMPLE NUMBER	URANIUM 238 UG/L
830125	1230	12310	3<
830416	1430	12340	3
830529	1530	12372	7
830624	1530	12404	3<
830829	1530	12468	3<
830927	1530	12500	3<

MAXIMUM	7
ARITH MEAN	5
GEOM MEAN	
MINIMUM	3
STD DEV (GEOM *)	
# SAMP IN STATISTICS	2
% SAMP (EXCLUDED)	66

## 1983 WATER QUALITY DATA REGION 5

186

B.O.W./ SITE: WILLIAMS LAKE CREEK  
 SAMPLE POINT: AT DENISON MINE ACCESS ROAD D 3  
 STATION TYPE: RIVER

STATION ID: 14-0019-045-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 29 44.31 LONG: 082 38 07.43

U T M: 17 0374500.0 5150200.0 4

REGION: 05

DISTANCE: 91.408

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	FWSTRC	FWTEHP	GACF	GACP	GBCF	
				ALK	ALK	CONDUCT.			GROSS	GROSS	GROSS	
SAMPLE	DATE	DATE	DEPTH	PROJECT	INFLECTN	25C	STREAM	WATER	ALPHA CT	ALPHA CT	BETA CT	
YYMMDD	HOUR	YYMMDD	M	SUB-PROJ	POINT	UMHO/CM	COND.	TEMP	FILTERED	UNDISSOL	FILTERED	
LMT	NUMBER	NUMBER		CODE	MG/L	AT 25 C		DEG.C	MBQ/L	MBQ/L	MBQ/L	
				AS CAC03	AS CAC03							
830126	1030	12318	0.30	0101	38.01	972.0	2		410	40<	370	
830417	1030	12350	0.30	0101	78.0	794.0	3	4.0	200	40	130	
830530	1500	12382	0.30	0101	27.2	825.0	3	11.0	390	40	270	
830625	1500	12414	0.30	0101	46.9	598.0	8	18.0	1100	1200	460	
830830	1500	12478	0.30	0101	104.2	1220.0	8	18.0	4700	240	1200	
830928	1500	12510	0.30	0101	60.5	1650.0		15.0	1700	850	910	
		MAXIMUM	0.30		104.2	106.52		18.0	4700	1200	1200	
		ARITH MEAN	0.30		63.4	51.99		13.2	1417	474	557	
		GEOM MEAN			57.5	46.69		11.6	809		432	
		MINIMUM	0.30		27.2	25.68		4.0	200	40	130	
		STD DEV (GEOM *)			29.4	28.94		5.9	1703		412	
		# SAMP IN STATISTICS	6		5	6		5	6	5	6	
		% SAMP (EXCLUDED)								16		
*INTERIM TEST-NAME:		GBCP	NNHTFR	NNOTFR	NNTKUR	PH	PPUT	RA226F	SSO4UR	TURB	UUUT	
		GROSS	NH3-N	NO2+NO3N	K'DAHL N		PHOSPHOR		SULPHATE		URANIUM	
SAMPLE	DATE	BETA CT	FIL.REAC	FIL.REAC	UNF.REAC		UNF.TOT.	RADIUM	UNF.REAC	TURB'ITY	UNF.TOT.	
DATE	HOUR	UNDISSOL	MG/L	MG/L	MG/L		MG/L	226 FIL.	MG/L	FTU	MG/L	
YYMMDD	LMT	MBQ/L	AS N	AS N	AS N	PH	AS P	MBQ/L	AS S04		AS U	
830126	1030	40<	3.000	4.750	3.700	8.89	0.003<T	160	331.90	9.40	0.002	
830417	1030	40<	1.220	1.420	1.510	8.218U	0.006	40<	133.70	1.23	0.001<	
830530	1500	40	0.042	3.160	0.340	8.409	0.005	100		4.10	0.005PNS	
830625	1500	750	0.034	0.240	0.410	7.580	0.001	590	149.25	1.40	0.098	
830830	1500	210	0.048	1.940	0.740	8.148	0.024	410	375.20	0.70		
830928	1500	170	0.312	6.180	0.670	7.614	0.030	420	608.00	0.55	0.024	
		MAXIMUM	750	3.000	6.180	3.700	8.89	0.030	590	608.00	4.10	0.098
		ARITH MEAN	292	0.776	2.948	1.228	8.14	0.011<A	336	319.61	1.40	0.032
		GEOM MEAN		0.207	1.986	0.853	8.13	0.006<A		272.80	1.01	
		MINIMUM	40	0.034	0.240	0.340	7.580	0.001	100	133.70	0.40	0.002
		STD DEV (GEOM *)		1.181	2.210	1.280	0.50	0.012<A		193.65	1.38	
		# SAMP IN STATISTICS	4	6	6	6	6	5	5	6	4	
		% SAMP (EXCLUDED)	33					16			20	

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

187

B.O.W./ SITE: WILLIAMS LAKE CREEK  
SAMPLE POINT: AT DENISON MINE ACCESS ROAD D 3  
STATION TYPE: RIVER

STATION ID: 14-0019-045-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SERPENT RIVER

STORET CODE: 02  
002  
8040

LAT: 46 29 44.31 LONG: 082 38 07.43

U T M: 17 0374500.0 5150200.0 4

REGION: 05

DISTANCE: 91.408

\*=INTERIM TEST-NAME: UU238

SAMPLE		URANIUM	
DATE	HOUR	SAMPLE	238
YYMMDD	LMT	NUMBER	UG/L
830126	1030	12318	3
830417	1030	12350	3<
830530	1500	12382	3<
830625	1500	12414	9
830830	1500	12478	63
830928	1500	12510	28
		MAXIMUM	63
		ARITH MEAN	26
		GEOM MEAN	
		MINIMUM	3
		STD DEV (GEOM *)	
		# SAMP IN STATISTICS	4
		% SAMP (EXCLUDED)	33

## 1983 WATER QUALITY DATA REGION 5

188

B.O.W./ SITE: PRONTO DITCH  
 SAMPLE POINT: OUTLET BELOW PRONTO TREATMENT PLANT PR 4  
 STATION TYPE: INDUSTRIAL PROCESS

STATION ID: 14-0019-046-09

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 12 15.39 LONG: 082 42 41.86 U T M: 17 0367950.0 5117950.0 4 REGION: 05 DISTANCE: 1.770

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	FWSTRC	FWTEMP	GACF	GACP	GBCF	
SAMPLE DATE	YMMDD LMT	SAMPLE HOUR	SAMPLE DEPTH	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	INFLECTN POINT MG/L AS CAC03	CONDUCT. 25C UMHO/CM AT 25 C	STREAM COND.	WATER TEMP DEG.C	GROSS ALPHA CT FILTERED MBQ/L	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L
830125	1000	12304	0.30	0101		50.11	620.0	2		1800	590	280
830416	0930	12332	0.30	0101	0.0	-15.33U	626.0	3	5.0	2100	420	580
830529	0930	12364	0.30	0101		137.50U		3	9.0	150	270	150
830624	0930	12396	0.30	0101	11.9	2.20	905.0	8	25.0	250	70	110
830829	0930	12460	0.30	0101	0.0	-76.36<T	1390.0	8	25.0	7800	390	1500
830927	0930	12492	0.30	0101	0.0	-34.09<T	1247.0		18.0	6400	690	1300
MAXIMUM		0.30			11.9	137.50	1390.0		25.0	7800	690	1500
ARITH MEAN		0.30			3.0	10.67<A	957.6		16.4	3083	405	653
GEOM MEAN							905.5		13.8	1386	329	417
MINIMUM		0.30			0.0	-76.36	620.0		5.0	150	70	110
STD DEV (GEOM *)							352.6		9.2	3240	222	605
# SAMP IN STATISTICS		6			4	6	5		5	6	6	6
% SAMP (EXCLUDED)												

*=INTERIM TEST-NAME:		GBCP	NNHTFR	NNOTFR	NNTKUR	PH	PPUT	RA226F	SS04UR	TURB	UUUT	
SAMPLE DATE	YMMDD LMT	SAMPLE HOUR	GROSS BETA CT UNDISSOL MBQ/L	TOTAL NH3-N FIL.REAC MG/L AS N	NO2+NO3N FIL.REAC MG/L AS N	K'DAHL N TOTAL UNF.REAC MG/L AS N	PHOSPHOR UNF.TOT. MG/L AS P	RADIUM 226 FIL. MBQ/L	SULPHATE UNF.REAC MG/L AS S04	TURB'ITY FTU	URANIUM UNF.TOT. MG/L AS U	
830125	1000	12304	550	0.138	0.195	0.980	6.61	0.084	190	184.80	5.80	0.011
830416	0930	12332	280	0.312	0.090	0.625	3.667U	0.015	110	287.20	27.00	0.018
830529	0930	12364	620		0.085	0.570	8.698U		130	443.00		0.036PNS
830624	0930	12396	80		0.040		6.497	0.010	70	490.50	12.70	0.048
830829	0930	12460	210	0.460	3.650	1.360	3.0.2	0.001<W	90	677.75	3.50	
830927	0930	12492	130	1.290	0.060	1.370	3.385	0.105	40<	714.00	39.00	
MAXIMUM		620	1.290	3.650	1.370	8.698	0.105	190	714.00	39.00	0.048	
ARITH MEAN		312	0.550	0.687	0.981	5.32	0.043<A	118	466.21	17.60	0.028	
GEOM MEAN		244	0.400	0.153	0.918	4.92	0.017<A		421.16	12.21	0.024	
MINIMUM		80	0.138	0.040	0.570	3.075	0.001	70	184.80	3.50	0.011	
STD DEV (GEOM *)		224	0.511	1.453	0.384	2.28	0.048<A		209.05	15.07	0.017	
# SAMP IN STATISTICS		6	4	6	5	6	5	5	6	5	4	
% SAMP (EXCLUDED)								16				

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

189

B.O.W./ SITE: PRONTO DITCH

STATION ID: 14-0019-046-09

SAMPLE POINT: OUTLET BELOW PRONTO TREATMENT PLANT PR 4

STATION TYPE: INDUSTRIAL PROCESS

MAJOR BASIN: GREAT LAKES

STORET CODE: 02

MINOR BASIN: LAKE HURON

002

TERM STREAM: SERPENT RIVER

8040

LAT: 46 12 15.39 LONG: 082 42 41.86 U T M: 17 0367950.0 5117950.0 4 REGION: 05 DISTANCE: 1.770

\*=INTERIM TEST-NAME: UU238

SAMPLE		URANIUM	
DATE	HOUR	SAMPLE	238
YYMMDD	LMT	NUMBER	UG/L
830125	1000	12304	28
830416	0930	12332	25
830529	0930	12364	3<
830624	0930	12396	11
830829	0930	12460	120
830927	0930	12492	98

MAXIMUM 120

ARITH MEAN 56

GEOM MEAN

MINIMUM 11

STD DEV (GEOM \*)

# SAMP IN STATISTICS 5

% SAMP (EXCLUDED) 16

## 1983 WATER QUALITY DATA REGION 5

190

B.O.W./ SITE: SERPENT RIVER  
 SAMPLE POINT: AT QUIRKE LAKE OUTLET 26 1  
 STATION TYPE: RIVER FLOW GAUGE FED 02CD003

STATION ID: 14-0019-049-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 29 14.25 LONG: 082 29 20.01

U T M: 17 0385725.0 5149050.0 4

REGION: 05

DISTANCE: 77.890

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	CUUT	DO	FEUT	FWFLOW	FWSTRC
SAMPLE DATE	HOUR	SAMPLE	SAMPLE	PROJECT	ALK	CONDUCT.	COPPER	DISOLVED	IRON	STREAM	
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	TOTAL	25C	UNF.TOT.	OXYGEN	UNF.TOT.	FLOW	
			M	CODE	MG/L	UMHO/CM	MG/L	MG/L	MG/L	M3	STREAM
					AS CAC03	AT 25 C	AS CU	AS O	AS FE	/S	COND.
830126	1530	12326	0.30	0101	5.8	344.0	0.006		0.075	6.490	2
830417	1600	12357	0.30	0101	8.3	58.9	0.003	20.00	0.025<T	21.500	3
830531	1230	12389	0.30	0101	5.8	437.0	0.007	14.00	0.065	13.100	3
830626	1230	12421	0.30	0101	7.9	473.0	0.003	9.00	0.063	5.540	8
830831	1230	12485	0.30	0101	4.9	513.0	0.002	8.00	0.020<T	0.760	8
830929	1230	12517	0.30	0101	4.7	540.0	0.005	10.00	0.065	0.548	
831109	1230	12549	0.30	0101	11.1	521.0	0.003	12.00	0.045	3.360	8
		MAXIMUM	0.30		11.1	540.0	0.007	20.00	0.075	21.500	
		ARITH MEAN	0.30		6.9	412.4	0.004	12.17	0.051<A	7.328	
		GEOM MEAN			6.6	346.9	0.004	11.59	0.046<A	3.918	
		MINIMUM	0.30		4.7	58.9	0.002	8.00	0.020	0.548	
		STD DEV (GEOM *)			2.3	169.4	0.002	4.40	0.022<A	7.560	
		# SAMP IN STATISTICS	7		7	7	7	6	7	7	
		% SAMP (EXCLUDED)									

*=INTERIM TEST-NAME:		FWTEMP	GACF	GACP	GBCF	GBCP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT
SAMPLE DATE	HOUR	SAMPLE	WATER	GROSS	GROSS	GROSS	NICKEL	TOTAL	NO2+NO3N	TOTAL	LEAD
YYMMDD	LMT	NUMBER	TEMP	ALPHA CT	ALPHA CT	BETA CT	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.
			DEG.C	MBQ/L	UNDISSOL	UNDISSOL	MG/L	MG/L	MG/L	MG/L	MG/L
							AS NI	AS N	AS N	AS N	AS PB
830126	1530	12326		640	40<	510	40<	0.003	2.280	5.850	0.003<
830417	1600	12357	2.0	550	40<	190	40<	0.002	0.124	0.310	0.003<
830531	1230	12389	12.0	710	90	520	140	0.003	2.960	7.000	0.003<
830626	1230	12421	22.0	840	90	240	80	0.003	3.980	8.350	0.003<
830831	1230	12485	25.0	540	60	540	80	0.004	4.410	9.410	0.003<
830929	1230	12517	18.0	700	160	640	180	0.005	9.740	4.600	0.003
831109	1230	12549	8.0	630	40<	690	40<	0.003	4.210	8.460	0.003<
		MAXIMUM	25.0	840	160	690	180	0.005	4.410	9.740	0.003
		ARITH MEAN	14.5	659	100	476	120	0.003	2.994	7.017	0.003
		GEOM MEAN	11.1	652		434		0.003	1.989	5.036	
		MINIMUM	2.0	540	60	190	80	0.002	0.124	0.310	0.003
		STD DEV (GEOM *)	8.8	104		190		0.001	1.625	3.249	
		# SAMP IN STATISTICS	6	7	4	7	4	7	6	7	1
		% SAMP (EXCLUDED)			42		42				85

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

191

B.O.W./ SITE: SERPENT RIVER  
 SAMPLE POINT: AT QUIRKE LAKE OUTLET 26 1  
 STATION TYPE: RIVER FLOW GAUGE FED 02CD003

STATION ID: 14-0019-049-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 29 14.25 LONG: 082 29 20.01 U T M: 17 0385725.0 5149050.0 4 REGION: 05 DISTANCE: 77.890

*INTERIM TEST-NAME:		PH	PPUT PHOSPHOR UNF.TOT. MG/L AS P	RA226F RADIUM 226 FIL. MBQ/L	SS04UR SULPHATE UNF.REAC MG/L AS S04	TURB TURB'ITY FTU	UUUT URANIUM UNF.TOT. MG/L AS U	UU238 URANIUM 238 UG/L	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	PH						
830126	1530	12326	6.51	0.001<T	40<	109.30	0.63	0.008	7
830417	1600	12357	6.761U	0.007	40<	17.33	0.56	0.003	7
830531	1230	12389	6.800U	0.008	70	152.00	0.85	0.007	9
830626	1230	12421	6.051	0.030	80	169.95	4.00	0.010	14
830831	1230	12485	6.543	0.003<T	80	188.50	0.61	0.010	6
830929	1230	12517	6.416	0.003<T	90	202.00	0.59	0.010	6
831109	1230	12549	6.492	0.018	70	195.35	0.56	0.010	7
MAXIMUM		6.800	0.030	90	202.00	4.00	0.010	14	0.040
ARITH MEAN		6.51	0.010<A	78	147.78	1.11	0.008	8	0.014
GEOM MEAN		6.51	0.006<A		120.27	0.82	0.008	8	0.011
MINIMUM		6.051	0.001	70	17.33	0.56	0.003	6	0.008
STD DEV (GEOM *)		0.25	0.010<A		65.66	1.28	0.003	3	0.012
# SAMP IN STATISTICS		7	7	5	7	7	7	7	7
% SAMP (EXCLUDED)				28					



## 1983 WATER QUALITY DATA REGION 5

192

B.O.W./ SITE: QUIRKE MINE TAILINGS  
 SAMPLE POINT: TREATED QUIRKE TAILINGS EFFLUENT  
 STATION TYPE: LAKE

STATION ID: 14-0019-051-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 30 30.32				LONG: 082 39 14.50				U T M: 17 0373100.0 5151650.0 4				REGION: 05		DISTANCE: 89.799	
*=INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	ALKTI	COND25	CUUT	FEUT	FWSTRC	FWTEMP	GACF			
					ALK	INFLECTN	CONDUCT.	COPPER	IRON			GROSS			
SAMPLE			SAMPLE	PROJECT	TOTAL	POINT	25C	UNF.TOT.	UNF.TOT.		WATER	ALPHA CT			
DATE	HOUR	SAMPLE	DEPTH	SUB-PROJ	MG/L	MG/L	UMHO/CM	MG/L	MG/L	STREAM	TEMP	FILTERED			
YYMMDD	LMT	NUMBER	M	CODE	AS CAC03	AS CAC03	AT 25 C	AS CU	AS FE	COND.	DEG.C	MBQ/L			
830126	1100	12319	0.30	0101	59.5	63.83	2850.0	0.037	1.150	2		14			
830417	1100	12351	0.30	0101	23.1	17.01U	1780.0	0.012	0.865	8	2.0	7600			
830530	1600	12383	0.30	0101	66.1	62.41U	2490.0	0.020	0.685	3	13.0	90			
830625	1600	12415	0.30	0101	47.1	46.13	2640.0			8	22.0	8500			
830830	1600	12479	0.30	0101	63.8	60.99	2760.0	0.008	0.455	8	25.0	8700			
830928	1600	12511	0.30	0101	62.5	56.99	2980.0	0.014	1.710		20.0				
831108	1600	12543	0.30	0101	46.8	47.65	3010.0	0.012	1.900	8	9.0	22000			
MAXIMUM			0.30		66.1	63.83	3010.0	0.037	1.900		25.0	22000			
ARITH MEAN			0.30		52.7	50.72	2644.3	0.017	1.127		15.2	7817			
GEOM MEAN					50.2	47.15	2610.2	0.015	1.001		11.7	1580			
MINIMUM			0.30		23.1	17.01	1780.0	0.008	0.455		2.0	14			
STD DEV (GEOM *)					15.2	16.43	422.9	0.010	0.575		8.8	8038			
# SAMP IN STATISTICS			7		7	7	7	6	6		6	6			
% SAMP (EXCLUDED)															
*=INTERIM		TEST-NAME:	GACP	GBCF	GBCP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PPUT			
							NH3-N		K'DAHL						
SAMPLE			GROSS	GROSS	GROSS	NICKEL	TOTAL	NO2+NO3N	TOTAL	LEAD		PHOSPHOR			
DATE	HOUR	SAMPLE	ALPHA CT	BETA CT	BETA CT	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.			
YYMMDD	LMT	NUMBER	UNDISSOL	FILTERED	UNDISSOL	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L			
			MBQ/L	MBQ/L	MBQ/L	AS NI	AS N	AS N	AS N	AS PB	PH	AS P			
830126	1100	12319	620	4200	1300	0.014	69.5	60.000	69.500	0.007	8.55	0.012			
830417	1100	12351	540	2200	720	0.032	39.2	35.100	39.250	0.003<	7.561U	0.005			
830530	1600	12383	2500	2800	1900	0.012	45.000	47.500	48.000	0.003<	8.561U	0.004<T			
830625	1600	12415	390	3600	830		49.300	50.000	40.500		8.745	0.005			
830830	1600	12479	1600	3700	3300	0.005	41.710	47.290	68.900	0.003<	8.661	0.007			
830928	1600	12511				0.010		60.500	37.500	0.003<	8.644	0.021			
831108	1600	12543	1300	4900	4000	0.008	45.500	71.760	45.500	0.003<	8.007	0.004			
MAXIMUM			2500	4900	4000	0.032	69.5	71.760	69.500	0.007	8.745	0.021			
ARITH MEAN			1158	3567	2008	0.013	48.4	53.164	49.879	0.007	8.39	0.008<A			
GEOM MEAN			938	3451	1640	0.011	47.5	51.992	48.414		8.38	0.007<A			
MINIMUM			390	2200	720	0.005	39.2	35.100	37.500	0.007	7.561	0.004			
STD DEV (GEOM *)			810	965	1356	0.010	10.9	11.897	13.685		0.44	0.006<A			
# SAMP IN STATISTICS			6	6	6	6	6	7	7	1	7	7			
% SAMP (EXCLUDED)										83					

( CONTD )

## 1983 WATER QUALITY DATA REGION 5

193

B.O.W./ SITE: QUIRKE MINE TAILINGS  
 SAMPLE POINT: TREATED QUIRKE TAILINGS EFFLUENT  
 STATION TYPE: LAKE

STATION ID: 14-0019-051-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 30 30.32 LONG: 082 39 14.50

U T M: 17 0373100.0 5151650.0 4

REGION: 05

DISTANCE: 89.799

*INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT	
		RADIUM	SULPHATE		URANIUM		ZINC	
SAMPLE		226 FIL.	UNF.REAC		UNF.TOT.	URANIUM	UNF.TOT.	
DATE	HOUR	MBQ/L	MG/L	TURB'ITY	MG/L	238	MG/L	
YYMMDD	LMT	NUMBER	AS S04	FTU	AS U	UG/L	AS ZN	
830126	1100	12319	240	1521.00	3.10	0.202	220	0.003
830417	1100	12351	40<	830.00	2.00	0.110	120	0.004
830530	1600	12383	30	1308.00	2.40	0.120	150	0.004
830625	1600	12415	50	1659.00	6.60	0.110	140	
830830	1600	12479	40<	1803.00	2.80	0.237	140	0.002
830928	1600	12511		1659.00	7.00	0.086		0.005
831108	1600	12543	100		6.50	0.340	370	0.004
MAXIMUM		240	1803.00	7.00	0.340	370	0.005	
ARITH MEAN		105	1463.33	4.34	0.172	190	0.004	
GEOM MEAN			1419.88	3.85	0.154	175	0.004	
MINIMUM		30	830.00	2.00	0.086	120	0.002	
STD DEV (GEOM *)			352.28	2.24	0.092	95	0.001	
# SAMP IN STATISTICS		4	6	7	7	6	6	
% SAMP (EXCLUDED)		33						

## 1983 WATER QUALITY DATA REGION 5

194

B.O.W./ SITE: MAY LAKE  
 SAMPLE POINT: SOUTH END OF MAY LAKE 33 3  
 STATION TYPE: LAKE

STATION ID: 14-0019-054-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 25 38.35 LONG: 082 28 51.88 U T M: 17 0386200.0 5142375.0 4 REGION: 05 DISTANCE: 61.636

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI ALK INFLECTN	COND25 CONDUCT. 25C	CUUT	FEUT	FMPH	FNTMP	GACF
SAMPLE DATE YYMMDD	HR LHT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	POINT MG/L AS CAC03	UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	IRON UNF.TOT. MG/L AS FE	PH FIELD	GROSS ALPHA CT FILTERED MBQ/L
830615	1350	11652	0.30	0101	13.2	8.56	363.0	0.001	0.005<T	7.15	21.0
831018	1210	11734	0.30	0101	13.8	7.32	380.0	0.001	0.020<T	7.06	11.0
MAXIMUM		0.30			13.8	8.56	380.0	0.001	0.020	7.15	21.0
ARITH MEAN		0.30			13.5	7.94	371.5	0.001	0.012<A	7.10	16.0
GEOM MEAN					13.5	7.92	371.4	0.001	0.010<A	7.10	15.2
MINIMUM		0.30			13.2	7.32	363.0	0.001	0.005	7.06	11.0
STD DEV (GEOM *)					0.4	0.88	12.0	0.000	0.011<A	0.06	7.1
# SAMP IN STATISTICS		2			2	2	2	2	2	2	1
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N TOTAL	NNTKUR K'DAHL N TOTAL	PBUT	PH	PPUT
SAMPLE DATE YYMMDD	HR LHT	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	NICKEL UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PH	PHOSPHOR UNF.TOT. MG/L AS P
830615	1350	11652			0.002<	0.358	0.400	0.500	0.003<	7.61	0.001<T
831018	1210	11734	40<	370	0.002<	0.288	0.415	0.450	0.003<	7.12	0.006
MAXIMUM			370			0.358	0.415	0.500		7.61	0.006
ARITH MEAN			370			0.323	0.407	0.475		7.36	0.003<A
GEOM MEAN						0.321	0.407	0.474		7.36	0.002<A
MINIMUM			370			0.288	0.400	0.450		7.12	0.001
STD DEV (GEOM *)						0.049	0.011	0.035		0.35	0.004<A
# SAMP IN STATISTICS			1			2	2	2		2	2
% SAMP (EXCLUDED)											

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

195

B.O.W./ SITE: MAY LAKE  
 SAMPLE POINT: SOUTH END OF MAY LAKE 33 3  
 STATION TYPE: LAKE

STATION ID: 14-0019-054-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 25 38.35 LONG: 082 28 51.88 U T M: 17 0386200.0 5142375.0 4 REGION: 05 DISTANCE: 61.636

*=INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT
		RADIUM	SULPHATE		URANIUM		ZINC
SAMPLE		226 FIL.	UNF. REAC		UNF. TOT.	URANIUM	UNF. TOT.
DATE	HOUR	MBQ/L	MG/L	TURB'ITY	MG/L	238	MG/L
YYMMDD	LMT	NUMBER	AS S04	FTU	AS U	UG/L	AS ZN
830615	1350	11652	107.00	0.45	0.001U		0.009
831018	1210	11734	112.40	0.42	0.001<	3<	0.002
MAXIMUM		150	112.40	0.45	0.001		0.009
ARITH MEAN		150	109.70	0.43	0.001		0.005
GEOM MEAN			109.67	0.43			0.004
MINIMUM		150	107.00	0.42	0.001		0.002
STD DEV (GEOM *)			3.82	0.02			0.005
# SAMP IN STATISTICS		1	2	2	1		2
% SAMP (EXCLUDED)					50		

## 1983 WATER QUALITY DATA REGION 5

196

B.O.W./ SITE: MAY LAKE  
 SAMPLE POINT: NORTH END OF MAY LAKE 33 1  
 STATION TYPE: LAKE

STATION ID: 14-0019-055-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 26 42.52 LONG: 082 29 40.48 U T M: 17 0385200.0 5144375.0 4 REGION: 05 DISTANCE: 64.372

*INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	ALKTI	COND25	CUUT	FEUT	FMPH	FWTEMP	GACF
SAMPLE DATE	YEAR	DEPTH	PROJECT	ALK	INFLECTN	CONDUCT.	COPPER	IRON	PH	WATER	GROSS
YYMMDD	LMT	M	SUB-PROJ	TOTAL	POINT	25C	UNF.TOT.	UNF.TOT.	FIELD	TEMP	ALPHA CT
			CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L		DEG.C	FILTERED
				AS CAC03	AS CAC03	AT 25 C	AS CU	AS FE			MBQ/L
830615	1410	11653	0101	13.4	10.27	612.0	0.003	0.015<T	7.82	20.0	450
831018	1225	11735	0101	12.4	8.96	660.0	0.002	0.040<T	7.16	11.0	470
MAXIMUM		0.30		13.4	10.27	660.0	0.003	0.040	7.82	20.0	470
ARITH MEAN		0.30		12.9	9.61	636.0	0.002	0.027<A	7.49	15.5	460
GEOM MEAN				12.9	9.59	635.5	0.002	0.024<A	7.48	14.8	460
MINIMUM		0.30		12.4	8.96	612.0	0.002	0.015	7.16	11.0	450
STD DEV (GEOM *)				0.7	0.93	33.9	0.001	0.018<A	0.47	6.4	14
# SAMP IN STATISTICS		2		2	2	2	2	2	2	2	2
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTR	NNOTFR	NNTKUR	PBUT	PH	PPUT
SAMPLE DATE	YEAR	GROSS	GROSS	GROSS	NICKEL	TOTAL	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR
YYMMDD	LMT	ALPHA CT	BETA CT	BETA CT	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.
		MBQ/L	FILTERED	UNDISSOL	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
			MBQ/L	MBQ/L	AS NI	AS N	AS N	AS N	AS PB	PH	AS P
830615	1410	11653	410	40<	0.002<	0.620	0.800	0.800	0.003<	7.75	0.002<T
831018	1225	11735	470	40<	0.002<	0.520	0.655	0.710	0.003<	7.17	0.008
MAXIMUM		120	470			0.620	0.800	0.800		7.75	0.008
ARITH MEAN		90	440			0.570	0.727	0.755		7.46	0.005<A
GEOM MEAN		85	439			0.568	0.724	0.754		7.45	0.004<A
MINIMUM		60	410			0.520	0.655	0.710		7.17	0.002
STD DEV (GEOM *)		42	42			0.071	0.103	0.064		0.41	0.004<A
# SAMP IN STATISTICS		2	2			2	2	2		2	2
% SAMP (EXCLUDED)											

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

197

B.O.W./ SITE: MAY LAKE  
 SAMPLE POINT: NORTH END OF MAY LAKE 33 1  
 STATION TYPE: LAKE

STATION ID: 14-0019-055-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 26 42.52 LONG: 082 29 40.48 U T M: 17 0385200.0 5144375.0 4 REGION: 05 DISTANCE: 64.372

*INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT	
		RADIUM	SULPHATE		URANIUM		ZINC	
SAMPLE		226 FIL.	UNF. REAC		UNF. TOT.	URANIUM	UNF. TOT.	
DATE	HR	MBQ/L	MG/L	TURB.ITY	MG/L	238	MG/L	
YYMMDD	LHT	NUMBER	AS S04	FTU	AS U	UG/L	AS ZN	
830615	1410	11653	80	185.00	0.80	0.001U	4	0.004
831018	1225	11735	120	197.60	0.52	0.014	3<	0.001
MAXIMUM		120	197.60	0.80	0.014	4	0.004	
ARITH MEAN		100	191.30	0.66	0.007	4	0.002	
GEOM MEAN		98	191.20	0.64	0.004	4	0.002	
MINIMUM		80	185.00	0.52	0.001	4	0.001	
STD DEV (GEOM *)		28	8.91	0.20	0.009		0.002	
# SAMP IN STATISTICS		2	2	2	2	1	2	
% SAMP (EXCLUDED)						50		

## 1983 WATER QUALITY DATA REGION 5

198

B.O.W./ SITE: PANEL CREEK  
 SAMPLE POINT: AT QUIRKE LAKE P11  
 STATION TYPE: RIVER

STATION ID: 14-0019-056-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 30 11.16 LONG: 082 33 07.95

U T M: 17 0380900.0 5150900.0 4

REGION: 05

DISTANCE: 79.500

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALTKI	COND25	FWSTRC	FWTEMP	GACF	GACP	GBCF
					ALK						
SAMPLE		SAMPLE	PROJECT	ALK	INFLECTN	CONDUCT.		WATER	GROSS	GROSS	GROSS
DATE	HR	NUMBER	SUB-PROJ	TOTAL	POINT	25C		TEMP	ALPHA CT	ALPHA CT	BETA CT
YYMMDD	LMT		CODE	MG/L	MG/L	UMHO/CM	STREAM	DEG.C	FILTERED	UNDISSOL	FILTERED
				AS CAC03	AS CAC03	AT 25 C	COND.		MBQ/L	MBQ/L	MBQ/L
830126	1630	12327	0101		5.78	68.6	2		80	70	130
830417	1630	12358	0101	4.6	1.37U	44.0	3		230	60	160
830531	1400	12390	0101	6.5	2.58U	64.1	3	14.0	260	60	120
830626	1400	12422	0101	9.1	7.00	68.2	8	24.0	310	130	190
830831	1400	12486	0101	11.4	8.43	115.1	8	25.0	550	120	270
830929	1400	12518	0101	0.0	-4.72	193.0		18.0	3000	180	1500
831109	1400	12550	0101	5.1	1.00	73.2	8	8.0	480	60	250
		MAXIMUM	0.30	11.4	8.43	193.0		25.0	3000	180	1500
		ARITH MEAN	0.30	6.1	3.06	89.5		17.8	701	97	374
		GEOM MEAN				80.3		16.5	381	88	242
		MINIMUM	0.30	0.0	-4.72	44.0		8.0	80	60	120
		STD DEV (GEOM *)				50.4		7.1	1026	47	500
		# SAMP IN STATISTICS	7	6	7	7		5	7	7	7
		% SAMP (EXCLUDED)									
*=INTERIM TEST-NAME:		GBCP	NNHTFR	NNOTFR	NNTKUR	PH	PPUT	RA226F	SS04UR	TURB	UUUT
			NH3-N		K'DAHL N						
SAMPLE		GROSS	TOTAL	NO2+NO3N	TOTAL		PHOSPHOR		SULPHATE		URANIUM
DATE	HR	BETA CT	FIL.REAC	FIL.REAC	UNF.REAC		UNF.TOT.	RADIUM	UNF.REAC	TURB'ITY	UNF.TOT.
YYMMDD	LMT	MBQ/L	MG/L	MG/L	MG/L	PH	MG/L	226 FIL.	MG/L	FTU	MG/L
		AS N	AS N	AS N	AS N		AS P	MBQ/L	AS S04		AS U
830126	1630	12327	40<	0.080	0.200	6.92	0.001<T	40<	17.81	0.97	0.002
830417	1630	12358	40<	0.046	0.075	6.529U	0.007	70	10.86	0.85	0.001
830531	1400	12390	40<	0.030	0.030	6.764U	0.013	70	15.42	1.06	0.002PNS
830626	1400	12422	70	0.084	0.025	6.803	0.010	90	15.64	3.00	0.001<
830831	1400	12486	120	0.070	0.035	7.107	0.018	200	36.84	4.50	
830929	1400	12518	100	0.176	0.235	4.136	0.008	900	78.90	0.92	
831109	1400	12550	40<	0.010	0.035	6.25	0.005	100	22.90	1.70	
		MAXIMUM	120	0.176	0.235	7.107	0.018	900	78.90	4.50	0.002
		ARITH MEAN	97	0.071	0.091	6.36	0.009<A	238	28.34	1.86	0.002
		GEOM MEAN		0.053	0.061	6.27	0.007<A		22.70	1.52	
		MINIMUM	70	0.010	0.025	4.136	0.001	70	10.86	0.85	0.001
		STD DEV (GEOM *)		0.054	0.089	0.149	0.006<A		23.81	1.39	
		# SAMP IN STATISTICS	3	7	7	7	7	6	7	7	3
		% SAMP (EXCLUDED)	57					14			25

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

199

B.O.W./ SITE: PANEL CREEK  
SAMPLE POINT: AT QUIRKE LAKE P11  
STATION TYPE: RIVER

STATION ID: 14-0019-056-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SERPENT RIVER

STORET CODE: 02  
002  
8040

LAT: 46 30 11.16 LONG: 082 33 07.95 U T M: 17 0380900.0 5150900.0 4 REGION: 05 DISTANCE: 79.500

\*=INTERIM TEST-NAME: UU238

SAMPLE	DATE	HR	TIME	NUMBER	URANIUM
YYMMDD LHT					238 UG/L
830126	1630			12327	3<
830417	1630			12358	3<
830531	1400			12390	3<
830626	1400			12422	3
830831	1400			12486	3
830929	1400			12518	9
831109	1400			12550	4
				MAXIMUM	9
				ARITH MEAN	5
				GEOM MEAN	
				MINIMUM	3
				STD DEV (GEOM *)	
				# SAMP IN STATISTICS	4
				% SAMP (EXCLUDED)	42



## 1983 WATER QUALITY DATA REGION 5

200

B.O.W./ SITE: ESTEN LAKE  
 SAMPLE POINT: CENTRAL PART OF ESTEN LAKE 49 1  
 STATION TYPE: LAKE

STATION ID: 14-0019-067-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 21 04.28 LONG: 082 41 50.51

U T M: 17 0369400.0 5134250.0 4

REGION: 05

DISTANCE: 60.188

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	CUUT	FEUT	FVPH	FWTEMP	GACF
				ALK	INFLECTN	CONDUCT.	COPPER	IRON			GROSS
SAMPLE	DATE	DATE	DEPTH	PROJECT	TOTAL	25C	UNF.TOT.	UNF.TOT.	PH	WATER	ALPHA CT
DATE	DATE	DATE	DEPTH	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	FIELD	TEMP	FILTERED
YYMMDD	LMT	NUMBER	M	CODE	AS CACO3	AT 25 C	AS CU	AS FE		DEG.C	MBQ/L
830615	1510	11654	0.30	0101	12.9	8.15	102.0	0.004	0.025<T	8.66	160
831018	1410	11741	0.30	0101	12.2	8.38	108.4	0.001	0.050	6.95	50
MAXIMUM		0.30			12.9	8.38	108.4	0.004	0.050	8.66	160
ARITH MEAN		0.30			12.5	8.26	105.2	0.002	0.037<A	7.80	105
GEOM MEAN					12.5	8.26	105.2	0.002	0.035<A	7.76	89
MINIMUM		0.30			12.2	8.15	102.0	0.001	0.025	6.95	50
STD DEV (GEOM *)					0.5	0.16	4.5	0.002	0.018<A	1.21	78
# SAMP IN STATISTICS		2			2	2	2	2	2	2	2
% SAMP (EXCLUDED)											
*INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTR	NNOTFR	NNTKUR	PBUT	PH	PPUT
		GROSS	GROSS	GROSS	NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR
SAMPLE	DATE	DATE	ALPHA CT	BETA CT	BETA CT	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.TOT.	UNF.TOT.	UNF.TOT.
DATE	DATE	DATE	UNDISSOL	FILTERED	UNDISSOL	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
YYMMDD	LMT	NUMBER	MBQ/L	MBQ/L	MBQ/L	AS NI	AS N	AS N	AS N	AS PB	AS P
830615	1510	11654	40<	80	40<	0.002	0.106	0.005<W	0.360	0.003<	8.78
831018	1410	11741	40<	100	40<	0.002<	0.026	0.050	0.320	0.003<	6.93
MAXIMUM				100		0.002	0.106	0.050	0.360		8.78
ARITH MEAN				90		0.002	0.066	0.027<A	0.340		7.85
GEOM MEAN				89			0.052	0.016<A	0.339		7.80
MINIMUM				80		0.002	0.026	0.005	0.320		6.93
STD DEV (GEOM *)				14			0.057	0.032<A	0.028		1.31
# SAMP IN STATISTICS				2		1	2	2	2		2
% SAMP (EXCLUDED)						50					

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

201

B.O.W./ SITE: ESTEN LAKE  
 SAMPLE POINT: CENTRAL PART OF ESTEN LAKE 49 1  
 STATION TYPE: LAKE

STATION ID: 14-0019-067-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 21 04.28 LONG: 082 41 50.51 U T M: 17 0369400.0 5134250.0 4 REGION: 05 DISTANCE: 60.188

*INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT
		RADIUM	SULPHATE		URANIUM		ZINC
SAMPLE		226 FIL.	UNF. REAC	TURB'ITY	UNF. TOT.	URANIUM	UNF. TOT.
DATE	HR	MBQ/L	MG/L	FTU	MG/L	238	MG/L
YYMMDD	LMT	NUMBER	AS S04		AS U	UG/L	AS ZN
830615	1510	11654	40<	20.91	1.10	0.001U	3<
831018	1410	11741	40<	20.00	0.31	0.001<	3<
MAXIMUM			20.91	1.10	0.001		0.007
ARITH MEAN			20.45	0.70	0.001		0.004
GEOM MEAN			20.45	0.58			0.003
MINIMUM			20.00	0.31	0.001		0.001
STD DEV (GEOM *)			0.64	0.56			0.004
# SAMP IN STATISTICS			2	2	1		2
% SAMP (EXCLUDED)					50		

## 1983 WATER QUALITY DATA REGION 5

202

B.O.W./ SITE: ORIENT LAKE OUTLET  
 SAMPLE POINT: AT LAKE OUTLET  
 STATION TYPE: RIVER

STATION ID: 14-0019-070-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 27 30.74 LONG: 082 31 10.88 U T M: 17 0383300.0 5145900.0 4 REGION: 05 DISTANCE: 85.400

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALTKI	COND25	CUUT	FEUT	FWSTRC	FWTEMP	GACF	
SAMPLE DATE	HOUR	SAMPLE NUMBER	SAMPLE DEPTH	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	INFLECTN POINT MG/L AS CAC03	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	IRON UNF.TOT. MG/L AS FE	STREAM COND.	WATER TEMP DEG.C	GROSS ALPHA CT FILTERED MBQ/L
830125	1530	12313	0.30	0101	87.0	46.66	2390.0		0.475	2		660
830416	1700	12344	0.30	0101	74.4	28.62U	1340.0	0.010	0.645	3	3.0	550
830530	1030	12376	0.30	0101	65.5	36.91U	1970.0	0.037	4.450	3	12.0	190
830625	1030	12408	0.30	0101	16.5	17.35	2050.0	0.007	0.145	8	25.0	990
830830	1030	12372	0.30	0101	25.2	23.02	2420.0	0.009	0.145	8	24.0	990
830928	1030	12504	0.30	0101	19.6	16.17	2070.0	0.014	0.290		19.0	1600
831108	1030	12536	0.30	0101	0.0	-39.22<T	2970.0	0.100	14.500	8	8.0	21000
MAXIMUM		0.30			87.0	46.66	2970.0	0.100	14.500		25.0	21000
ARITH MEAN		0.30			41.2	18.50<A	2172.9	0.029	2.950		15.2	3711
GEOM MEAN							2119.9	0.018	0.739		12.2	1124
MINIMUM		0.30			0.0	-39.22	1340.0	0.007	0.145		3.0	190
STD DEV (GEOM *)							500.7	0.036	5.321		8.9	7636
# SAMP IN STATISTICS		7			7	7	7	6	7		6	7
% SAMP (EXCLUDED)												

*=INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PPUT	
SAMPLE DATE	HOUR	SAMPLE NUMBER	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	NICKEL UNF.TOT. MG/L AS NI	FIL.REAC NH3-N TOTAL MG/L AS N	FIL.REAC NO2+NO3N TOTAL MG/L AS N	UNF.REAC K'DAHL N TOTAL MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PHOSPHOR UNF.TOT. MG/L AS P	
830125	1530	12313	180	360	120		6.4	8.000	6.400		9.15	0.001<T
830416	1700	12344	290	300	140	0.002<	2.080	2.020	2.250	0.003<	7.929U	0.005
830530	1030	12376	910	180	760	0.027	2.100	4.300	2.250	0.003<	7.900U	0.018
830625	1030	12408	40<	40	40<	0.002<	1.760	5.600	1095.00	0.003<	7.875	0.008
830830	1030	12372	70	180	90	0.002<	0.264	9.000	0.390	0.003<	7.876	0.008
830928	1030	12504	120	810	120	0.003	0.336	5.700	0.470	0.003<	7.354	0.027
831108	1030	12536	1800	5000	640	0.093	2.430	7.360	2.500	0.013	3.226	0.002<T
MAXIMUM		1800	5000	760	0.093	6.4	9.000	1095.00	0.013	9.15	0.027	
ARITH MEAN		562	981	312	0.041	2.2	5.997	158.466	0.013	7.33	0.010<A	
GEOM MEAN			344			1.4	5.472	3.996		7.02	0.006<A	
MINIMUM		70	40	90	0.003	0.264	2.020	0.390	0.013	3.226	0.001	
STD DEV (GEOM *)			1789			2.0	2.375	412.978		1.89	0.009<A	
# SAMP IN STATISTICS		6	7	6	3	7	7	7	1	7	7	
% SAMP (EXCLUDED)		14		14	50				83			

( CONTD )

## 1983 WATER QUALITY DATA REGION 5

203

B.O.W./ SITE: ORIENT LAKE OUTLET  
 SAMPLE POINT: AT LAKE OUTLET  
 STATION TYPE: RIVER

STATION ID: 14-0019-070-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 27 30.74 LONG: 082 31 10.88 U T M: 17 0383300.0 5145900.0 4 REGION: 05 DISTANCE: 85.400

*=-INTERIM		TEST-NAME:	RA226F	SS04UR	TURB	UUUT	UU238	ZNUT
				SULPHATE		URANIUM		ZINC
SAMPLE			RADIUM	UNF.REAC		UNF.TOT.	URANIUM	UNF.TOT.
DATE	HOUR	SAMPLE	226 FIL.	MG/L	TURB'ITY	MG/L	238	MG/L
YYMMDD	LMT	NUMBER	MBQ/L	AS S04	FTU	AS U	UG/L	AS ZN
830125	1530	12313	40<	945.50	11.90	0.012	3<	
830416	1700	12344	230	516.00	4.30	0.001	4	0.003
830530	1030	12376	90	799.00	16.50	0.023	3<	0.110
830625	1030	12408	40<	934.75	1.10	0.007	15	0.001<
830830	1030	12372	40<	972.25	0.35	0.011	13	0.001<
830928	1030	12504	270	883.00	2.10	0.013	18	0.002
831108	1030	12536	50	126.10	4.30	0.210	240	0.470
MAXIMUM			270	972.25	16.50	0.210	240	0.470
ARITH MEAN			160	739.51	5.79	0.040	58	0.146
GEOM MEAN				630.13	3.13	0.013		
MINIMUM			50	126.10	0.35	0.001	4	0.002
STD DEV (GEOM *)				312.27	6.08	0.075		
# SAMP IN STATISTICS			4	7	7	7	5	4
% SAMP (EXCLUDED)			42				28	33

## 1983 WATER QUALITY DATA REGION 5

204

B.O.W./ SITE: PANEL MINE TAILINGS EFFLUENT  
 SAMPLE POINT: AT TAILINGS TREATMENT EFFLUENT  
 STATION TYPE: RIVER

STATION ID: 14-0019-071-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 31 08.36 LONG: 082 32 30.86 U T M: 17 0381725.0 5152650.0 4 REGION: 05 DISTANCE: 80.000

*=INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	ALKTI	COND25	CUUT	FEUT	FWSTRC	FWTEMP	GACF
SAMPLE DATE	HR	SAMPLE	SAMPLE	PROJECT	ALK	INFLECTN	CONDUCT.	COPPER	IRON		WATER	GROSS
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	TOTAL	POINT	25C	UNF.TOT.	UNF.TOT.		TEMP	ALPHA CT
			M	CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L	STREAM	DEG.C	FILTERED
					AS CAC03	AS CAC03	AT 25 C	AS CU	AS FE	COND.		MBQ/L
830126	1400	12324	0.30	0101	17.6	13.80	2480.0	0.025	0.085	2		5400
830417	1400	12355	0.30	0101	16.1	16.42U	1810.0	0.005	0.075	3	1.0	3300
830626	1030	12419	0.30	0101	20.1	17.14	2150.0	0.005	0.041	8	23.0	4300
830831	1030	12483	0.30	0101	23.8	21.36	2420.0	0.003	0.035<T	8	25.0	2100
830929	1030	12515	0.30	0101	24.5	21.59	2570.0	0.008	0.070		17.0	1300
831109	1030	12547	0.30	0101	23.4	21.31	2480.0	0.007	0.045	8	9.0	2300
MAXIMUM			0.30		24.5	21.59	2570.0	0.025	0.085		25.0	5400
ARITH MEAN			0.30		20.9	18.60	2318.3	0.009	0.058<A		15.0	3117
GEOM MEAN					20.7	18.35	2302.1	0.007	0.055<A		9.7	2799
MINIMUM			0.30		16.1	13.80	1810.0	0.003	0.035		1.0	1300
STD DEV (GEOM *)					3.5	3.28	287.3	0.008	0.021<A		10.0	1526
# SAMP IN STATISTICS			6		6	6	6	6	6		5	6
% SAMP (EXCLUDED)												

*=INTERIM		TEST-NAME:	GACP	GBCF	GBCP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PPUT
SAMPLE DATE	HR	SAMPLE	GROSS	GROSS	GROSS	NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR
YYMMDD	LMT	NUMBER	ALPHA CT	BETA CT	BETA CT	UNF.TOT.	TOTAL	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.
			UNDISSOL	FILTERED	UNDISSOL	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
			MBQ/L	MBQ/L	MBQ/L	AS NI	AS N	AS N	AS N	AS PB	PH	AS P
830126	1400	12324	1000	4400	750	0.005	3.440	15.500	3.650	0.003<	7.24	0.001<T
830417	1400	12355	150	3100	110	0.002	2.900	11.400	3.500	0.003<	7.572U	0.006
830626	1030	12419	110	3900	200	0.002<	1.760	11.900	2.200	0.003<	7.436	0.004
830831	1030	12483	40<	3900	60	0.002<	0.348	11.640	0.660	0.003<	7.653	0.004<T
830929	1030	12515	90	2900	170	0.002<	1.370	12.540	1.600	0.004	7.399	0.008
831109	1030	12547	180	4900	190	0.002<	2.410	11.830	2.650	0.003<	7.841	0.001<T
MAXIMUM			1000	4900	750	0.005	3.440	15.500	3.650	0.004	7.841	0.008
ARITH MEAN			306	3850	247	0.003	2.038	12.468	2.377	0.004	7.52	0.004<A
GEOM MEAN				3787	178		1.650	12.398	2.070		7.52	0.003<A
MINIMUM			90	2900	60	0.002	0.348	11.400	0.660	0.004	7.24	0.001
STD DEV (GEOM *)				758	252		1.116	1.533	1.144		0.21	0.003<A
# SAMP IN STATISTICS			5	6	6	2	6	6	6	1	6	6
% SAMP (EXCLUDED)			16			66				83		

( CONTD )

## 1983 WATER QUALITY DATA REGION 5

205

B.O.W./ SITE: PANEL MINE TAILINGS EFFLUENT  
 SAMPLE POINT: AT TAILINGS TREATMENT EFFLUENT  
 STATION TYPE: RIVER

STATION ID: 14-0019-071-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 31 08.36 LONG: 082 32 30.86 U T M: 17 0381725.0 5152650.0 4 REGION: 05 DISTANCE: 80.000

*=INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT	
			SULPHATE		URANIUM		ZINC	
SAMPLE		RADIUM	UNF.REAC		UNF.TOT.	URANIUM	UNF.TOT.	
DATE	HOUR	226 FIL.	MG/L	TURB'ITY	MG/L	238	MG/L	
YYMMDD	LMT	NUMBER	AS SO4	FTU	AS U	UG/L	AS ZN	
830126	1400	12324	340	1210.00	1.40	0.073	79	0.006
830417	1400	12355	110	828.50	0.98	0.020	48	0.002
830626	1030	12419	60	1094.75	0.50	0.013	21	0.002
830831	1030	12483	150	1243.00	0.66	0.009	21	0.001
830929	1030	12515	90	1260.00	0.70	0.011	15	0.017
831109	1030	12547	220		1.18	0.011	22	0.001
MAXIMUM		340	1260.00	1.40	0.073	79	0.017	
ARITH MEAN		162	1127.25	0.90	0.023	34	0.005	
GEOM MEAN		137	1114.41	0.85	0.017	29	0.003	
MINIMUM		60	828.50	0.50	0.009	15	0.001	
STD DEV (GEOM *)		103	179.01	0.34	0.025	25	0.006	
# SAMP IN STATISTICS		6	5	6	6	6	6	
% SAMP (EXCLUDED)								

## 1983 WATER QUALITY DATA REGION 5

206

B.O.W./ SITE: GRAVEL PIT LAKE OUTLET  
 SAMPLE POINT: AT NEW OUTLET  
 STATION TYPE: RIVER

STATION ID: 14-0019-072-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 31 07.57 LONG: 082 41 05.92 U T M: 17 0370750.0 5152850.0 4 REGION: 05 DISTANCE: 93.017

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	CUUT	FEUT	FWSTRC	FWTEMP	GACF
SAMPLE DATE	YEAR HOUR	SAMPLE NUMBER	SAMPLE DEPTH	PROJECT SUB-PROJ	ALK TOTAL	INFLECTN POINT	CONDUCT. 25C	COPPER UNF. TOT.	IRON UNF. TOT.	WATER TEMP	GROSS ALPHA CT
YYMMDD	LMT		M	CODE	MG/L AS CAC03	MG/L AS CAC03	UMHO/CM AT 25 C	MG/L AS CU	MG/L AS FE	DEG.C	FILTERED MBQ/L
830126	1200	12321	0.30	0101	7.1	4.25	39.8	0.005	0.415	2	140
830417	1130	12352	0.30	0101	4.9	1.20U	41.5	0.001	0.635	3	320
830530	1630	12384	0.30	0101	8.5	0.08U	63.1	0.009	1.010	3	220
830625		12416	0.30	0101	10.4	6.49	39.8	0.003	0.859	8	1800
830830	1630	12480	0.30	0101	12.6	9.72	45.6	0.001	0.325	8	90
830928	1630	12512	0.30	0101	12.0	9.00	45.0	0.004	0.235		80
MAXIMUM		0.30			12.6	9.72	63.1	0.009	1.010	25.0	1800
ARITH MEAN		0.30			9.2	5.12	45.8	0.004	0.580	15.8	442
GEOM MEAN					8.8	2.48	45.2	0.003	0.509	11.9	224
MINIMUM		0.30			4.9	0.08	39.8	0.001	0.235	2.0	80
STD DEV (GEOM *)					3.0	3.99	8.8	0.003	0.309	9.4	671
# SAMP IN STATISTICS		6			6	6	6	6	6	5	6
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PPUT
SAMPLE DATE	YEAR HOUR	GROSS ALPHA CT	GROSS BETA CT	GROSS BETA CT	NICKEL UNF. TOT.	NH3-N TOTAL	NO2+NO3N	K'DAHL N TOTAL	LEAD UNF. TOT.	PH	PHOSPHOR UNF. TOT.
YYMMDD	LMT	UNDISSOL MBQ/L	FILTERED MBQ/L	UNDISSOL MBQ/L	MG/L AS NI	FIL. REAC MG/L AS N	FIL. REAC MG/L AS N	UNF. REAC MG/L AS N	MG/L AS PB		MG/L AS P
830126	1200	12321	40<	80	40<	0.001<	0.338	0.610	0.350	0.003<	0.001<T
830417	1130	12352	40	60	40<	0.002<	0.202	0.285	0.490	0.003<	0.016
830530	1630	12384	180	90	40<	0.003	0.550	0.450	0.810	0.003<	0.010
830625		12416	40<	90	40<	0.002<	0.150	0.015	1.650	0.003<	0.030
830830	1630	12480	40<	110	40<	0.002<	0.07	0.010<T	0.560	0.003<	0.012
830928	1630	12512	40<	70	40<	0.002<	0.096	0.060	0.540	0.003<	0.014
MAXIMUM		180	110		0.003	0.550	0.610	1.650		7.295	0.030
ARITH MEAN		110	83		0.003	0.236	0.238<A	0.733		6.46	0.014<A
GEOM MEAN			82			0.187	0.094<A	0.641		6.44	0.010<A
MINIMUM		40	60		0.003	0.078	0.010	0.350		5.562	0.001
STD DEV (GEOM *)			18			0.180	0.253<A	0.473		0.58	0.009<A
# SAMP IN STATISTICS		2	6		1	6	6	6		6	6
% SAMP (EXCLUDED)		66			83						

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

207

B.O.W./ SITE: GRAVEL PIT LAKE OUTLET  
 SAMPLE POINT: AT NEW OUTLET  
 STATION TYPE: RIVER

STATION ID: 14-0019-072-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 31 07.57 LONG: 082 41 05.92 U T M: 17 0370750.0 5152850.0 4 REGION: 05 DISTANCE: 93.017

*INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT	
			SULPHATE		URANIUM		ZINC	
SAMPLE		RADIUM	UNF.REAC		UNF.TOT.	URANIUM	UNF.TOT.	
DATE	HOUR	226 FIL.	MG/L	TURB'ITY	MG/L	238	MG/L	
YYMMDD	LHT	NUMBER	AS SO4	FTU	AS U	UG/L	AS ZN	
830126	1200	12321	40<	8.38	10.70	0.001<	3<	0.010
830417	1130	12352	40<	8.84	2.60	0.003	3<	0.006
830530	1630	12384	40<	16.98	3.20	0.002	3<	0.008
830625		12416	40<	5.73	2.00	0.001<	3<	0.006
830830	1630	12480	40<	4.96	1.20	0.001<	3<	0.001
830928	1630	12512	40<	4.39	1.40	0.001<	3<	0.001
MAXIMUM				16.98	10.70	0.003		0.010
ARITH MEAN				8.21	3.52	0.002		0.005
GEOM MEAN				7.34	2.59			0.004
MINIMUM				4.39	1.20	0.002		0.001
STD DEV (GEOM *)				4.66	3.60			0.004
# SAMP IN STATISTICS				6	6	2		6
% SAMP (EXCLUDED)						66		



## 1983 WATER QUALITY DATA REGION 5

208

B.O.W./ SITE: EVANS LAKE OUTLET  
 SAMPLE POINT: AT NEW DIVERSION  
 STATION TYPE: RIVER

STATION ID: 14-0019-073-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 29 37.89 LONG: 082 39 55.13 U T M: 17 0372200.0 5150050.0 4 REGION: 05 DISTANCE: 95.270

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALTKI ALK INFLECTN POINT	COND25 CONDUCT. 25C UMHO/CM AT 25 C	CUUT COPPER UNF.TOT. MG/L AS CU	FEUT IRON UNF.TOT. MG/L AS FE	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C	GACF GROSS ALPHA CT FILTERED MBQ/L
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CACO3	COND25 CONDUCT. 25C UMHO/CM AT 25 C	CUUT COPPER UNF.TOT. MG/L AS CU	FEUT IRON UNF.TOT. MG/L AS FE	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C	GACF GROSS ALPHA CT FILTERED MBQ/L
830126	0930	12316	0.30	0101	23.1	63.5	0.005	0.045	2		90
830417	0930	12348	0.30	0101	8.8	37.7	0.001	0.085	3	3.0	140
830530	1345	12380	0.30	0101	22.6	56.4	0.005	0.065	3	12.0	240
830625	1345	12412	0.30	0101	20.1	52.7	0.001<	0.063	8	22.0	160
830830	1345	12476	0.30	0101	20.9	56.7	0.001	0.075	8	27.0	50
830928	1400	12508	0.30	0101	23.5	58.0	0.002	0.055		20.0	70
831108	1400	12540	0.30	0101	21.0	59.2	0.001	0.055	8	8.0	180
MAXIMUM		0.30			23.5	63.5	0.005	0.085		27.0	240
ARITH MEAN		0.30			20.0	54.9	0.002	0.063		15.3	133
GEOM MEAN					19.2	54.3		0.062		12.3	117
MINIMUM		0.30			8.8	37.7	0.001	0.045		3.0	50
STD DEV (GEOM *)					5.1	6.2		0.013		9.2	67
# SAMP IN STATISTICS		7			7	7	6	7		6	7
% SAMP (EXCLUDED)							14				

*INTERIM TEST-NAME:		GACP	GBCF	GBCP	NIUT	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT. MG/L AS PB	PH	PPUT PHOSPHOR UNF.TOT. MG/L AS P	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	NICKEL UNF.TOT. MG/L AS NI	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N	NNOTFR NO2+NO3N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PBUT LEAD UNF.TOT. MG/L AS PB	PH	PPUT PHOSPHOR UNF.TOT. MG/L AS P
830126	0930	12316	40<	90	40<	0.001<	0.062	0.185	0.240	0.003<	7.06	0.001<T
830417	0930	12348	40<	70	40<	0.002<	0.130	4.180	0.350	0.003<	7.109U	0.008
830530	1345	12380	40<	60	40<	0.002<	0.030	0.240	0.210	0.003<	7.586U	0.008
830625	1345	12412	40<	80	40<	0.002<	0.054	0.120	0.310	0.003<	7.600	0.009
830830	1345	12476	40	80	40<	0.002<	0.020	0.020	0.250	0.003<	7.686	0.009
830928	1400	12508	40<	80	40<	0.007	0.034	0.090	0.280	0.003<	7.419	0.016
831108	1400	12540	60	160	40<	0.002	0.026	0.175	0.200	0.003<	7.549	0.003<T
MAXIMUM		60	160			0.007	0.130	4.180	0.350		7.686	0.016
ARITH MEAN		50	89			0.004	0.051	0.716	0.263		7.43	0.008<A
GEOM MEAN			85				0.042	0.184	0.258		7.43	0.006<A
MINIMUM		40	60			0.002	0.020	0.020	0.200		7.06	0.001
STD DEV (GEOM *)			33				0.038	1.529	0.054		0.25	0.005<A
# SAMP IN STATISTICS		2	7			2	7	7	7		7	7
% SAMP (EXCLUDED)		71				71						

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

209

B.O.W./ SITE: EVANS LAKE OUTLET  
 SAMPLE POINT: AT NEW DIVERSION  
 STATION TYPE: RIVER

STATION ID: 14-0019-073-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 29 37.89 LONG: 082 39 55.13 U T M: 17 0372200.0 5150050.0 4 REGION: 05 DISTANCE: 95.270

*=INTERIM TEST-NAME:		RA226F	SS04UR	TURB	UUUT	UU238	ZNUT
			SULPHATE		URANIUM		ZINC
SAMPLE		RADIUM	UNF.REAC		UNF.TOT.	URANIUM	UNF.TOT.
DATE	226 FIL.	MG/L		TURB*ITY	MG/L	238	MG/L
YYMMDD	LMT	NUMBER	AS S04	FTU	AS U	UG/L	AS ZN
830126	0930	12316	40<	7.15	0.66	0.001<	3<
830417	0930	12348	40<	6.32	1.04	0.002	3<
830530	1345	12380	40<	8.23	0.45	0.001<	4
830625	1345	12412	70	6.44	0.40	0.001<	3<
830830	1345	12476	40<	5.86	1.10	0.001	3<
830928	1400	12508	40<	6.34	0.66	0.001<	3<
831108	1400	12540	80	6.92	0.79	0.001	3<
MAXIMUM		80	8.23	1.10	0.002	4	0.014
ARITH MEAN		75	6.75	0.73	0.001	4	0.006
GEOM MEAN			6.72	0.69			
MINIMUM		70	5.86	0.40	0.001	4	0.002
STD DEV (GEOM *)			0.78	0.27			
# SAMP IN STATISTICS		2	7	7	3	1	4
% SAMP (EXCLUDED)		71			57	85	42

## 1983 WATER QUALITY DATA REGION 5

210

B.O.W./ SITE: ESTEN LAKE OUTLET  
 SAMPLE POINT: OUTLET OF ESTEN LAKE DIVERSION  
 STATION TYPE: RIVER

STATION ID: 14-0019-074-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 20 39.40 LONG: 082 36 55.01

U T M: 17 0375700.0 5133350.0 4

REGION: 05

DISTANCE: 65.498

*=INTERIM TEST-NAME:			FWSADP	FGPROJ	ALKT	ALKTI	CLIDUR	COND25	DO	FWSTRC	FWTEMP	GACF
SAMPLE DATE	HR	SAMPLE	SAMPLE	PROJECT	ALK	INFLECTN	CHLORIDE	CONDUCT.	DISOLVED		WATER	GROSS
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	TOTAL	POINT	UNF.REAC	25C	OXYGEN		TEMP	ALPHA CT
			M	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	STREAM	DEG.C	FILTERED
					AS CAC03	AS CAC03	AS CL-	AT 25 C	AS O	COND.		MBQ/L
830125	1230	12309	0.30	0101		8.92	31.50	592.0		2		190
830416	1400	12339	0.30	0101	5.0	2.06U	4.48	98.3	26.00	3	1.0	80
830529	1445	12371	0.30	0101	11.9	4.58U	30.63	520.0	13.00	5 0 3	12.0	160
830624	1445	12403	0.30	0101	14.4	9.44	33.80	552.0	10.00	8	10.0	370
830829	1445	12467	0.30	0101	25.3	23.70	75.00	582.0	10.00	8	25.0	160
830927	1500	12499	0.30	0101	33.9	29.97	72.50	590.0			16.0	190
831107	1500	12531	0.30	0101	15.9		20.68	596.0	11.00	8	8.0	330
		MAXIMUM	0.30		33.9	29.97	75.00	596.0	26.00		25.0	370
		ARITH MEAN	0.30		17.7	13.11	38.37	504.3	14.00		12.0	211
		GEOM MEAN			15.1	9.09	28.80	444.3	13.00		8.5	190
		MINIMUM	0.30		5.0	2.06	4.48	98.3	10.00		1.0	80
		STD DEV (GEOM *)			10.3	11.16	26.13	181.1	6.82		8.1	102
		# SAMP IN STATISTICS	7		6	6	7	7	5		6	7
		% SAMP (EXCLUDED)										
*=INTERIM TEST-NAME:			GACP	GBCF	GBCP	NNHTFR	NNOTFR	NNTKUR	PH	PP04FR	PPUT	RA226F
SAMPLE DATE	HR	SAMPLE	GROSS	GROSS	GROSS	NH3-N		K'DAHL N				
YYMMDD	LMT	NUMBER	ALPHA CT	BETA CT	BETA CT	TOTAL	NO2+NO3N	UNF.REAC	PH	PO4	PHOSPHOR	RADIUM
			UNDISSOL	FILTERED	UNDISSOL	FIL.REAC	FIL.REAC	MG/L		FIL.REAC	UNF.TOT.	226 FIL.
			MBQ/L	MBQ/L	MBQ/L	MG/L	MG/L	AS N		MG/L	MG/L	MBQ/L
830125	1230	12309	40	280	40<	2.300	7.500	3.150	6.58	0.1425	0.300	60
830416	1400	12339	40<	70	40<	0.018	0.430	0.510	6.689U	0.0070	0.016	40<
830529	1445	12371	40<	230	40<	0.022	2.280	0.470	6.854U	0.0030	0.023	50
830624	1445	12403	40<	290	40<	0.346	1.830	0.980	7.224	0.0030	0.047	60
830829	1445	12467	310	220	120	1.080	3.270	1.760	7.383	0.0070	0.031	90
830927	1500	12499	40	270	40<	2.420	4.250	3.250	6.979	0.0780	0.052	40<
831107	1500	12531	40	270	40<	0.130	1.220	0.380	7.25	0.0005<W	0.003<T	110
		MAXIMUM	310	290	120	2.420	7.500	3.250	7.383	0.1425	0.300	110
		ARITH MEAN	107	233	120	0.902	2.969	1.500	6.99	0.0344<A	0.067<A	74
		GEOM MEAN		215		0.271	2.172	1.070	6.99	0.0082<A	0.031<A	
		MINIMUM	40	70	120	0.018	0.430	0.380	6.58	0.0005	0.003	50
		STD DEV (GEOM *)		76		1.061	2.364	1.253	0.30	0.0551<A	0.104<A	
		# SAMP IN STATISTICS	4	7	1	7	7	7	7	7	7	5
		% SAMP (EXCLUDED)	42		85							28

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

211

B.O.W./ SITE: ESTEN LAKE OUTLET  
 SAMPLE POINT: OUTLET OF ESTEN LAKE DIVERSION  
 STATION TYPE: RIVER

STATION ID: 14-0019-074-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SERPENT RIVER

STORET CODE: 02  
 002  
 8040

LAT: 46 20 39.40 LONG: 082 36 55.01

U T M: 17 0375700.0 5133350.0 4

REGION: 05

DISTANCE: 65.498

*INTERIM TEST-NAME:		RSP	SS04UR SULPHATE	TURB	UUUT URANIUM	UU238 URANIUM	
SAMPLE DATE	HR	RESIDUE PARTIC.	UNF.REAC MG/L	TURB'ITY FTU	UNF.TOT. MG/L	URANIUM 238 UG/L	
YYMMDD	LMT	SAMPLE NUMBER	MG/L AS SO4		AS U		
830125	1230	12309	2.360	218.60	1.40	0.002	3<
830416	1400	12339	3.640	24.39	1.60	0.001<	3<
830529	1445	12371	3.830	188.00	211.00	0.001	3<
830624	1445	12403	7.540	202.50	2.40	0.001	3<
830829	1445	12467	1.990	144.30	1.10	0.002	3<
830927	1500	12499	3.450	129.00	0.74	0.001	3
831107	1500	12531	1.440	246.90	1.60	0.001<	5
MAXIMUM		7.540	246.90	211.00	0.002	5	
ARITH MEAN		3.464	164.81	31.41	0.001	4	
GEOM MEAN		3.050	137.58	2.84			
MINIMUM		1.440	24.39	0.74	0.001	3	
STD DEV (GEOM *)		2.011	74.17	79.20			
# SAMP IN STATISTICS		7	7	7	5	2	
% SAMP (EXCLUDED)					28	71	

## 1983 WATER QUALITY DATA REGION

212

B.O.W./ SITE: JUNCTION CREEK  
 SAMPLE POINT: AT OUTLET OF KELLY LAKE  
 STATION TYPE: RIVER FLOW GAUGE FED.02CF012

STATION ID: 14-0028-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 25 39.53 LONG: 081 05 49.06 U T M: 17 0492550.0 5141350.0 4 REGION: 05 DISTANCE: 122.951

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FVFLOW	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	STREAM	
DATE	HOUR	NUMBER	SUB-PROJ	TOTAL	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	FLOW	COND.
YYMMDD	LMT		CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	M3	
				AS CAC03	AS CL-	AT 25 C	AS CU	AS O	AS FE	/S	
830313	0925	14524	0101	8.4	72.00	781.0	0.061	9.00	0.835	7.690	6 8
830424	1200	14566	0101	15.1	59.50	686.0	0.081	8.00	0.530	4.390	6 8
830528	1430	14603	0101	20.2		1063.0	0.039	8.00	0.330	6.350	6 8
830626	1135	14640	0101	25.7	77.00	966.0	0.015	8.00	0.380	0.967	6 8
830731	1300	14677	0101	29.3	77.70	1124.0	0.020	7.00	0.245	1.070	6 8
830828	1150	14714	0101	36.0	74.50	1188.0	0.002	8.00	0.205	1.620	6 8
831002	1155	14751	0101	35.3	75.60	1225.0	0.022	8.00	0.190	1.770	6 8
831030	1050	14788	0101	46.2	71.20	1161.0	0.037	8.00	0.120	2.600	6 8
831127	1215	14825	0101	48.0	71.40	1241.0	0.026	8.00	0.235	3.540	6 8
		MAXIMUM	0.30	48.0	77.70	1241.0	0.081	9.00	0.835	7.690	
		ARITH MEAN	0.30	29.4	72.36	1048.3	0.034	8.00	0.341	3.333	
		GEOM MEAN		26.0	72.14	1029.3	0.024	7.99	0.291	2.622	
		MINIMUM	0.30	8.4	59.50	686.0	0.002	7.00	0.120	0.967	
		STD DEV (GEOM *)		13.5	5.77	198.7	0.024	0.50	0.221	2.395	
		# SAMP IN STATISTICS	9	9	8	9	9	9	9	9	
		% SAMP (EXCLUDED)									

*INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP
SAMPLE		WATER	NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		P04	PHOSPHOR	RESIDUE
DATE	HOUR	TEMP	UNF.TOT.	TOTAL	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	PARTIC.
YYMMDD	LMT	DEG.C	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	MG/L
			AS NI	AS N	AS N	AS N	AS PB	PH	AS P	AS P	
830313	0925	14524	0.650	0.012	5.000	0.580	0.003<	6.33		0.088	11.800
830424	1200	14566	4.0	0.990	0.020	3.440	0.003<	6.66	0.0065	0.083	8.760
830528	1430	14603	10.0	0.760	1.860	2.720	0.003<	7.31	0.0180	0.114	7.270
830626	1135	14640	22.0	0.240	0.180	3.250	0.003<	7.07	0.0535	0.131	9.460
830731	1300	14677	21.0	0.074	0.450	1.080	0.003<	9.96	0.0300	0.122	13.100
830828	1150	14714	21.0	0.002<	0.300	1.140	0.003<	9.63	0.0830	0.181	12.900
831002	1155	14751	15.0	0.500	1.200	1.760	0.004	7.30	0.1100	0.173	4.790
831030	1050	14788	4.0	1.100	2.840	1.230	0.003<	7.57	0.0720	0.098	2.210
831127	1215	14825	2.0	1.000	3.940	1.090	0.004	7.50	0.0610	0.112	3.330
		MAXIMUM	22.0	1.100	3.940	5.000	0.004	9.96	0.1100	0.181	13.100
		ARITH MEAN	12.4	0.664	1.203	2.301	0.004	7.70	0.0542	0.122	8.180
		GEOM MEAN	9.1		0.375	1.967		7.62	0.0407	0.118	7.038
		MINIMUM	2.0	0.074	0.012	1.080	0.004	6.33	0.0065	0.083	2.210
		STD DEV (GEOM *)	8.5		1.408	1.388		1.25	0.0348	0.035	4.078
		# SAMP IN STATISTICS	8	8	9	9	2	9	8	9	9
		% SAMP (EXCLUDED)			11		77				

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

213

B.O.W./ SITE: JUNCTION CREEK  
 SAMPLE POINT: AT OUTLET OF KELLY LAKE  
 STATION TYPE: RIVER FLOW GAUGE FED.02CF012

STATION ID: 14-0028-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 25 39.53 LONG: 081 05 49.06

U T M: 17 0492550.0 5141350.0 4

REGION: 05

DISTANCE: 122.951

*=INTERIM TEST-NAME:		SS04UR	TURB	ZNUT
		SULPHATE		ZINC
		UNF.REAC		UNF.TOT.
SAMPLE		MG/L	TURB'ITY	MG/L
DATE	HR	AS SO4	FTU	AS ZN
YYMMDD	LMT	NUMBER		
830313	0925	14524	12.80	0.032
830424	1200	14566	5.60	0.031
830528	1430	14603	3.00	0.015
830626	1135	14640	3.00	0.003
830731	1300	14677	6.90	0.004
830828	1150	14714	5.50	0.001<
831002	1155	14751	1.80	0.016
831030	1050	14788	2.30	0.021
831127	1215	14825	2.50	0.021
MAXIMUM		516.00	12.80	0.032
ARITH MEAN		461.53	4.82	0.018
GEOM MEAN		458.43	3.98	
MINIMUM		382.20	1.80	0.003
STD DEV (GEOM *)		57.22	3.47	
# SAMP IN STATISTICS		6	9	8
% SAMP (EXCLUDED)				11

## 1983 WATER QUALITY DATA REGION 5

214

B.O.W./ SITE: COPPER CLIFF CREEK  
 SAMPLE POINT: AT CEASAR ROAD SUDBURY  
 STATION TYPE: RIVER FLOW GAUGE MOE 02CF107

STATION ID: 14-0028-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 28 10.30 LONG: 081 02 20.67 U T M: 17 0497000.0 5146000.0 4 REGION: 05 DISTANCE: 131.802

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	
SAMPLE DATE	YMMDD	TIME	NUMBER	DEPTH	PROJECT	ALC	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	WATER
DATE	YMMDD	TIME	NUMBER	DEPTH	SUB-PROJ	TOTAL	UNF. REAC	UMHO/CM	UNF. TOT.	OXYGEN	UNF. TOT.	TEMP
DATE	YMMDD	TIME	NUMBER	DEPTH	CODE	MG/L	AS CL-	AT 25 C	MG/L	AS O	MG/L	DEG.C
830313	0850		14523	0.30	0101	32.3	57.50	1590.0	0.025	8.00	0.675	6 8
830424	1125		14565	0.30	0101	25.3	51.00	1400.0	0.022	7.00	1.025	6 8
830528	1350		14602	0.30	0101	45.1		1800.00	0.035	7.00		10.0
830626	1110		14639	0.30	0101	33.1	64.40	2080.0	0.077	7.00	5.875	6 8
830731	1200		14675	0.30	0101	30.6	53.40	1820.0	0.018	7.00	0.220	6 8
830828	1120		14712	0.30	0101	29.1	52.30	2140.0	0.018	6.00	0.075	6 8
831002	1110		14749	0.30	0101	17.7	82.90	2430.0	0.027	7.00	0.550	6 8
831030	1000		14786	0.30	0101	18.4	103.20	2330.0	0.099	7.00	2.325	6 8
831127	1140		14823	0.30	0101	27.5	191.60	2420.0	0.034	7.00	0.725	6 8
MAXIMUM				0.30		45.1	191.60	2430.0	0.099	8.00	5.875	22.0
ARITH MEAN				0.30		28.8	82.04	2001.1	0.039	7.00	1.434	12.7
GEOM MEAN						27.7	73.64	1969.0	0.033	6.98	0.707	9.9
MINIMUM				0.30		17.7	51.00	1400.0	0.018	6.00	0.075	3.0
STD DEV (GEOM *)						8.3	47.86	370.3	0.029	0.50	1.922	8.2
# SAMP IN STATISTICS				9		9	8	9	9	9	8	8
% SAMP (EXCLUDED)												

*INTERIM TEST-NAME:		NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP	SS04UR
SAMPLE DATE	YMMDD	TIME	NUMBER	NICKEL	NH3-N	NITR	LEAD	P04	PHOSPHOR	RESIDUE	SULPHATE
DATE	YMMDD	TIME	NUMBER	UNF. TOT.	FIL. REAC	FIL. REAC	UNF. REAC	FIL. REAC	UNF. TOT.	PARTIC.	UNF. REAC
DATE	YMMDD	TIME	NUMBER	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
DATE	YMMDD	TIME	NUMBER	AS NI	AS N	AS N	AS N	AS P	AS P	AS P	AS S04
830313	0850		14523	0.290	11.600	1.150	12.700	0.003<	9.68	0.013	23.700
830424	1125		14565	0.980	7.500	0.720	8.700	0.003<	9.11	0.005<T	7.240
830528	1350		14602	0.400	10.300	0.960	11.400	0.003<	9.82	0.0005<W	32.500
830626	1110		14639	3.900	2.180	1.850	12.800	0.003<	9.66	0.0005<W	67.700
830731	1200		14675	0.100	6.440	1.210	7.700	0.003<	9.88	0.0010<T	7.620
830828	1120		14712	0.130	5.950	1.300	7.800	0.003<	9.47	0.0010<T	4.710
831002	1110		14749	0.180	7.020	1.550	8.700	0.003<	8.69	0.0005<W	8.890
831030	1000		14786	1.000	7.270	1.740	8.250	0.003<	9.25	0.0005<T	31.600
831127	1140		14823	0.260	7.490	2.280	7.900	0.003<	8.89	0.0010<T	23.400
MAXIMUM				3.900	11.600	2.280	12.800	9.88	0.0010	0.042	67.700
ARITH MEAN				0.804	7.306	1.418	9.550	9.38	0.0007<A	0.014<A	23.040
GEOM MEAN				0.401	6.738	1.343	9.356	9.37	0.0006<A	0.010<A	16.468
MINIMUM				0.100	2.180	0.720	7.700	8.69	0.0005	0.003	4.710
STD DEV (GEOM *)				1.210	2.656	0.484	2.129	0.42	0.0003<A	0.012<A	19.942
# SAMP IN STATISTICS				9	9	9	9	9	8	9	7
% SAMP (EXCLUDED)											

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

215

B.O.W./ SITE: COPPER CLIFF CREEK  
 SAMPLE POINT: AT CEASAR ROAD SUDBURY  
 STATION TYPE: RIVER FLOW GAUGE MOE 02CF107

STATION ID: 14-0028-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 28 10.30 LONG: 081 02 20.67 U T M: 17 0497000.0 5146000.0 4 REGION: 05 DISTANCE: 131.802

*=INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
SAMPLE			UNF.TOT.
DATE	HOUR	SAMPLE TURB'ITY	MG/L
YYMMDD	LHT	NUMBER FTU	AS ZN
830313	0850	14523	12.20
830424	1125	14565	11.00
830503	1350	14602	3.10
830626	1110	14639	35.00
830731	1200	14675	3.00
830828	1120	14712	2.70
831002	1110	14749	4.60
831030	1000	14786	13.60
831127	1140	14823	10.80
MAXIMUM		35.00	0.046
ARITH MEAN		10.67	0.015
GEOM MEAN		7.55	0.011
MINIMUM		2.70	0.004
STD DEV (GEOM *)		10.12	0.013
# SAMP IN STATISTICS		9	9
% SAMP (EXCLUDED)			



## 1983 WATER QUALITY DATA REGION 5

216

B.O.W./ SITE: WHITSON RIVER  
 SAMPLE POINT: AT BRIDGE IN CHELMSFORD  
 STATION TYPE: RIVER

STATION ID: 14-0028-008-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 34 57.92 LONG: 081 11 58.89 U T M: 17 0484700.0 5158600.0 4 REGION: 05 DISTANCE: 139.204

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP
				ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON		
SAMPLE DATE	YMMDD LMT	SAMPLE DEPTH	PROJECT SUB-PROJ	TOTAL MG/L	UNF.REAC MG/L	25C UMHO/CM	UNF.TOT. MG/L	OXYGEN MG/L	UNF.TOT. MG/L	STREAM COND.	WATER TEMP DEG.C
		M	CODE	AS CACO3	AS CL-	AT 25 C	AS CU	AS O	AS FE		
830312	1140	14513	0.30	0101	20.7	14.80	144.0	0.010	10.00	3 6 8	
830422	0635	14531	0.30	0101	39.1	12.00	163.0	0.014	10.00	3 6 8	3.0
830527	0610	14567	0.30	0101	71.6	12.50	224.0	0.014	10.00	3 6 8	9.0
830625	1100	14616	0.30	0101	97.4	16.90	293.0	0.015	10.00	6 8	21.0
830730	1050	14653	0.30	0101	119.7	23.90	359.0	0.004	9.00	6 8	21.0
830827	1035	14690	0.30	0101	119.0	25.10	370.0	0.006	10.00	6 8	21.0
831001	1110	14727	0.30	0101	86.9	28.07	314.0	0.012	11.00	6 8	15.0
831028	1335	14769	0.30	0101	65.4	19.12	255.0	0.019	9.00	6 8	4.0
831126	1120	14801	0.30	0101	47.4	18.89	226.0	0.009	10.00	6 8	2.0
MAXIMUM		0.30			119.7	28.07	370.0	0.019	11.00		21.0
ARITH MEAN		0.30			74.1	19.03	260.9	0.011	9.89		12.0
GEOM MEAN					65.3	18.28	249.2	0.010	9.87		8.6
MINIMUM		0.30			20.7	12.00	144.0	0.004	9.00		2.0
STD DEV (GEOM *)					34.8	5.67	80.0	0.005	0.60		8.5
# SAMP IN STATISTICS		9			9	9	9	9	9		8
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP	SS04UR
		NICKEL	NH3-N	TOTAL	K'DAHL N	LEAD		P04	PHOSPHOR		SULPHATE
SAMPLE DATE	YMMDD LMT	UNF.TOT. MG/L	FIL.REAC MG/L	NO2+NO3N MG/L	UNF.REAC MG/L	UNF.TOT. MG/L	PH	FIL.REAC MG/L	UNF.TOT. MG/L	RESIDUE PARTIC. MG/L	UNF.REAC MG/L
		AS NI	AS N	AS N	AS N	AS PB		AS P	AS P		AS S04
830312	1140	14513	0.057	0.012	0.600	0.350	0.003<	7.35	0.0030	0.028	8.300
830422	0635	14531	0.071	0.008	0.220	0.340	0.003<	7.45	0.0030	0.027	11.400
830527	0610	14567	0.050	0.016	0.180	0.680	0.003<	7.92	0.0105	0.040	13.400
830625	1100	14616	0.042	0.006	0.245	0.380	0.004	7.90	0.0015<T	0.016	3.320
830730	1050	14653	0.010	0.012	0.130	0.220	0.003<	8.08	0.0015<T	0.008	3.040
830827	1035	14690	0.012	0.056	0.050	0.280	0.003<	8.01	0.0060	0.008	2.480
831001	1110	14727	0.022	0.018	0.160	0.360	0.004<	8.05	0.0010<T	0.014	2.190
831028	1335	14769	0.044	0.026	0.185	0.400	0.004	7.67	0.0025<T	0.016	0.760<T
831126	1120	14801	0.065	0.010	0.270	0.340	0.003<	7.46	0.0015<T	0.013	2.860
MAXIMUM		0.071	0.056	0.600	0.680	0.004	8.08	0.0105	0.040	13.400	37.15
ARITH MEAN		0.041	0.018	0.227	0.372	0.004	7.77	0.0034<A	0.019	5.306<A	28.56
GEOM MEAN		0.034	0.015	0.189	0.356		7.76	0.0026<A	0.016	3.762<A	27.52
MINIMUM		0.010	0.006	0.050	0.220	0.004	7.35	0.0010	0.008	0.760	17.73
STD DEV (GEOM *)		0.022	0.015	0.154	0.127		0.29	0.0031<A	0.011	4.542<A	7.85
# SAMP IN STATISTICS		9	9	9	9	2	9	9	9	9	9
% SAMP (EXCLUDED)						77					

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

217

B.O.W./ SITE: WHITSON RIVER  
 SAMPLE POINT: AT BRIDGE IN CHELMSFORD  
 STATION TYPE: RIVER

STATION ID: 14-0028-008-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 34 57.92 LONG: 081 11 58.89 U T M: 17 0484700.0 5158600.0 4 REGION: 05 DISTANCE: 139.204

*=INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
SAMPLE			UNF.TOT.
DATE	HR	SAMPLE	TURB'ITY
YYMMDD	LMT	NUMBER	FTU
			MG/L
			AS ZN
830312	1140	14513	5.20
830422	0635	14531	3.40
830527	0610	14567	3.00
830625	1100	14616	2.80
830730	1050	14653	1.85
830827	1035	14690	1.95
831001	1110	14727	2.10
831028	1335	14769	3.00
831126	1120	14801	4.80
MAXIMUM		5.20	0.015
ARITH MEAN		3.12	0.008
GEOM MEAN		2.94	0.006
MINIMUM		1.85	0.001
STD DEV (GEOM *)		1.19	0.005
# SAMP IN STATISTICS		9	9
% SAMP (EXCLUDED)			

## 1983 WATER QUALITY DATA REGION 5

218

B.O.W./ SITE: ONAPING RIVER  
 SAMPLE POINT: 1 MILES UPSTREAM FROM HIGH FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02CF010

STATION ID: 14-0028-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 36 17.26 LONG: 081 22 52.56 U T M: 17 0470800.0 5161100.0 4 REGION: 05 DISTANCE: 171.873

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWFLOW	FWSTRC
				ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	STREAM	
SAMPLE	DATE	SAMPLE	PROJECT	TOTAL	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	FLOW	COND.
DATE	TIME	NUMBER	SUB-PROJ	MG/L	MG/L	AT 25 C	MG/L	MG/L	MG/L	M3	
YYMMDD	LMT		CODE	AS CACO3	AS CL-		AS CU	AS O	AS FE	/S	
830312	1250	14516	0101	6.6	6.38	99.2	0.052	12.00	0.395	9.000	3 6 8
830422	1900	14541	0101	5.2	8.58	115.0	0.039	11.00	0.250	33.800	3 6 8
830527	0800	14571	0101	6.1	6.22	95.5	0.023	11.00	0.295	56.300	3 6 8
830625	1250	14620	0101	9.7	7.51	134.0	0.020	11.00	0.300	8.200	6 8
830730	1235	14657	0101	13.6	4.90	105.7	0.017	11.00	0.180	2.440	6 8
830827	1210	14694	0101	4.8	6.42	119.0	0.014	12.00	0.145	1.470	6 8
831001	1250	14731	0101	9.7	13.25	206.0	0.040	12.00	0.180	2.160	6 8
831028	1300	14765	0101	6.7	7.04	117.7	0.028	11.00	0.165	12.600	6 8
831126	1240	14805	0101	9.2	7.39	120.0	0.032	12.00	0.220	15.800	6 8
MAXIMUM		0.30		13.6	13.25	206.0	0.052	12.00	0.395	56.300	
ARITH MEAN		0.30		8.0	7.52	123.6	0.029	11.44	0.237	15.752	
GEOM MEAN				7.5	7.25	120.5	0.027	11.43	0.225	8.437	
MINIMUM		0.30		4.8	4.90	95.5	0.014	11.00	0.145	1.470	
STD DEV (GEOM *)				2.8	2.38	33.1	0.012	0.53	0.081	18.195	
# SAMP IN STATISTICS		9		9	9	9	9	9	9	9	
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP
			NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		P04	PHOSPHOR	
SAMPLE	DATE	SAMPLE	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	RESIDUE
DATE	TIME	NUMBER	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	PARTIC.
YYMMDD	LMT		AS NI	AS N	AS N	AS N	AS PB	PH	AS P	AS P	MG/L
830312	1250	14516	0.320	0.078	0.265	0.290	0.003<	6.89	0.0005<W	0.011	2.610
830422	1900	14541	0.210	0.050	0.110	0.240	0.003<	6.52	0.0005<W	0.010	4.380
830527	0800	14571	0.140	0.026	0.085	0.250	0.003<	6.73	0.0005<T	0.011	5.480
830625	1250	14620	0.170	0.030	0.050	0.220	0.004	7.05	0.0005<T	0.010	1.520
830730	1235	14657	0.100	0.018	0.060	0.190	0.003<	7.13	0.0015<T	0.008	0.870<T
830827	1210	14694	0.150	0.044	0.045	0.260	0.003<	7.24	0.0020<T	0.013	0.380<T
831001	1250	14731	0.350	0.008	0.125	0.230	0.003<	7.28	0.0030	0.014	0.510<T
831028	1300	14765	0.120	0.016	0.075	0.230	0.003<	6.76	0.0005<T	0.012	0.510<T
831126	1240	14805	0.220	0.024	0.135	0.210	0.003<	6.68	0.0010<T	0.007	1.840
MAXIMUM		21.0	0.350	0.078	0.265	0.290	0.004	7.28	0.0030	0.014	5.480
ARITH MEAN		11.9	0.198	0.033	0.106	0.236	0.004	6.92	0.0011<A	0.011	2.011<A
GEOM MEAN		8.6	0.182	0.027	0.091	0.234		6.92	0.0009<A	0.010	1.352<A
MINIMUM		2.0	0.100	0.008	0.045	0.190	0.004	6.52	0.0005	0.007	0.380
STD DEV (GEOM *)		8.4	0.087	0.022	0.068	0.029		0.27	0.0009<A	0.002	1.828<A
# SAMP IN STATISTICS		8	9	9	9	9	1	9	9	9	9
% SAMP (EXCLUDED)							88				

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

219

B.O.W./ SITE: ONAPING RIVER  
 SAMPLE POINT: 1 MILES UPSTREAM FROM HIGH FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02CF010

STATION ID: 14-0028-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 36 17.26 LONG: 081 22 52.56 U T M: 17 0470800.0 5161100.0 4 REGION: 05 DISTANCE: 171.873

*=INTERIM TEST-NAME:		SS04UR	TURB	ZNUT
		SULPHATE		ZINC
		UNF.REAC		UNF.TOT.
SAMPLE DATE	YMHDD LMT	SAMPLE NUMBER	MG/L AS S04	TURB'ITY FTU
830312	1250	14516	24.64	1.70
830422	1900	14541	30.49	1.05
830527	0800	14571	24.45	0.90
830625	1250	14620	37.56	0.60
830730	1235	14657	26.23	0.68
830827	1210	14694	29.77	1.25
831001	1250	14731	59.00	0.70
831028	1300	14765	34.73	0.81
831126	1240	14805	34.94	1.50
MAXIMUM		59.00	1.70	0.029
ARITH MEAN		33.53	1.02	0.017
GEOM MEAN		32.33	0.96	0.015
MINIMUM		24.45	0.60	0.006
STD DEV (GEOM *)		10.65	0.39	0.008
# SAMP IN STATISTICS		9	9	9
% SAMP (EXCLUDED)				

## 1983 WATER QUALITY DATA REGION 5

220

B.O.W./ SITE: ONAPING RIVER  
 SAMPLE POINT: UPSTREAM FROM LEVACK SEPTIC TANK  
 STATION TYPE: RIVER

STATION ID: 14-0028-013-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 38 37.96 LONG: 081 23 59.41

U T M: 17 0469400.0 5165450.0 4

REGION: 05

DISTANCE: 177.345

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HOUR	DEPTH	SUB-PROJ	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	STREAM
YYMMDD	LMT	M	CODE	MG/L	MG/L	MG/L	UMHQ/CM	MG/L	MG/L	MG/L	COND.
				AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	
830312	1420	14519	0101	8.2	0.081	0.71	53.7	0.001<	13.00	0.250	3 6 8
830422	1600	14533	0101	9.9	0.110	0.51	47.0	0.001	12.00	0.175	3 6 8
830527	1415	14574	0101	5.2	0.097		47.6	0.008	12.00	0.175	3 6 8
830625	1335	14622	0101	13.1	0.048	0.77	50.9	0.004	12.00	0.325	6 8
830730	1315	14659	0101	14.1	0.070	1.03	67.0	0.004	11.00	0.200	6 8
830827	1250	14696	0101	3.5	0.014	1.19	70.9	0.002	12.00	0.120	6 8
831001	1330	14733	0101	12.8	0.014	1.23	69.6	0.001<	13.00	0.120	6 8
831028	0900	14756	0101	8.3	0.063	1.57	63.9	0.016	12.00	0.165	6 8
831126	1300	14807	0101	7.6	0.110	0.83	51.7	0.010	12.00	0.195	6 8
MAXIMUM		0.30		14.1	0.110	1.57	70.9	0.016	13.00	0.325	
ARITH MEAN		0.30		9.2	0.067	0.98	58.0	0.006	12.11	0.192	
GEOM MEAN				8.5	0.054	0.93	57.3		12.10	0.183	
MINIMUM		0.30		3.5	0.014	0.51	47.0	0.001	11.00	0.120	
STD DEV (GEOM *)				3.6	0.037	0.34	9.7		0.60	0.064	
# SAMP IN STATISTICS		9		9	9	8	9	7	9	9	
% SAMP (EXCLUDED)								22			

*INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PPO4FR	PPUT	RSP	TURB
SAMPLE		WATER	NICKEL	NH3-N	LEAD		PHENOLS	P04	PHOSPHOR	RESIDUE	TURB'ITY
DATE	HOUR	TEMP	UNF.TOT.	FIL.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	PARTIC.	FTU
YYMMDD	LMT	DEG.C	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L	MG/L	
			AS NI	AS N	AS PB		PHENOL	AS P	AS P		
830312	1420	14519	0.002	0.006	0.003<	6.74		0.0005<T	0.010	0.540<T	0.90
830422	1600	14533	0.003	0.036	0.003<	6.80		0.2450	0.245	1.600	0.60
830527	1415	14574	0.003	0.012	0.003<	6.39		0.0005<T	0.006	1.980	0.60
830625	1335	14622	0.005	0.016	0.003<	6.90	1.0	0.0005<W	0.004	1.300	0.80
830730	1315	14659	0.002	0.006	0.003<	6.85	0.2<T	0.0010<T	0.005	3.310	0.76
830827	1250	14696	0.002<	0.008	0.003<	7.12	1.6	0.0010<T	0.007	0.540<T	0.50
831001	1330	14733	0.003	0.008	0.003<	7.08	0.2<T	0.0005<T	0.007	0.870<T	0.86
831028	0900	14756	0.010	0.022	0.005	7.13	0.6<T	0.0005<T	0.015	0.660<T	1.71
831126	1300	14807	0.005	0.008	0.003<	6.81	2.0	0.0010<T	0.006	1.600	1.22
MAXIMUM		21.0	0.010	0.036	0.005	7.13	2.0	0.2450	0.245	3.310	1.71
ARITH MEAN		11.7	0.004	0.014	0.005	6.87	0.9<A	0.0278<A	0.034	1.378<A	0.88
GEOM MEAN		8.5		0.011		6.87	0.7<A	0.0013<A	0.010	1.155<A	0.82
MINIMUM		2.0	0.002	0.006	0.005	6.39	0.2	0.0005	0.004	0.540	0.50
STD DEV (GEOM *)		8.2		0.010		0.23	0.7<A	0.0814<A	0.079	0.893<A	0.38
# SAMP IN STATISTICS		8	8	9	1	9	6	9	9	9	9
% SAMP (EXCLUDED)			11		88						

(CONT'D.)

## 1983 WATER QUALITY DATA REGION 5

221

B.O.W./ SITE: ONAPING RIVER  
SAMPLE POINT: UPSTREAM FROM LEVACK SEPTIC TANK  
STATION TYPE: RIVER

STATION ID: 14-0028-013-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SPANISH RIVER

STORET CODE: 02  
002  
7950

LAT: 46 38 37.96 LONG: 081 23 59.41 U T M: 17 0469400.0 5165450.0 4 REGION: 05 DISTANCE: 177.345

*=INTERIM TEST-NAME:		ZNUT
		ZINC
SAMPLE		UNF.TOT.
DATE	HR	MG/L
YYMMDD	LHT	AS ZN
830312	1420	14519 0.009
830422	1600	14533 0.010
830527	1415	14574 0.009
830625	1335	14622 0.006
830730	1315	14659 0.015
830827	1250	14696 0.003
831001	1330	14733 0.008
831028	0900	14756 0.055
831126	1300	14807 0.033
MAXIMUM		0.055
ARITH MEAN		0.016
GEOM MEAN		0.011
MINIMUM		0.003
STD DEV (GEOM *)		0.017
# SAMP IN STATISTICS		9
% SAMP (EXCLUDED)		

## 1983 WATER QUALITY DATA REGION 5

222

B.O.W./ SITE: MOOSE CREEK  
 SAMPLE POINT: AT MOOSE LAKE OUTLET  
 STATION TYPE: RIVER

STATION ID: 14-0028-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 38 41.79 LONG: 081 20 58.33

U T M: 17 0473250.0 5165550.0 4

REGION: 05

DISTANCE: 181.851

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	NIUT
				ALK	CONDUCT.	COPPER	DISOLVED	IRON			NICKEL
SAMPLE		SAMPLE	PROJECT	TOTAL	25C	UNF.TOT.	OXYGEN	UNF.TOT.		WATER	UNF.TOT.
DATE	HR	DEPTH	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	TEMP	MG/L
YYMMDD	LMT	NUMBER	CODE	AS CAC03	AT 25 C	AS CU	AS O	AS FE	COND.	DEG.C	AS NI
830312	1325	14517	0101	2.5	504.0	0.014	10.00	1.475	4 6 8		0.900
830422	0635	14532	0101	8.0	805.0	0.071	9.00	0.795	6 8	3.0	1.900
830527	1350	14573	0101	12.5	1026.0	0.014	9.00	0.350	6 8	9.0	1.000
830625	1540	14628	0101	4.7	1134.0	0.024	10.00	0.360	6 8	21.0	1.300
830827	1500	14704	0101	40.8	845.0	0.350			1		10.000
831001	1545	14739	0101	15.7	1186.0	0.010	10.00	0.220	6 8	15.0	0.720
831028	1100	14762	0101	19.9	1214.0	0.029	11.00	0.175	6 8	4.0	0.640
831126	1450	14813	0101	15.8	827.0	0.009	11.00	0.260	6 8	2.0	0.710
MAXIMUM		0.30		40.8	1214.0	0.350	11.00	1.475		21.0	10.000
ARITH MEAN		0.30		15.0	942.6	0.065	10.00	0.519		9.0	2.146
GEOM MEAN				11.1	911.1	0.027	9.97	0.394		6.4	1.281
MINIMUM		0.30		2.5	504.0	0.009	9.00	0.175		2.0	0.640
STD DEV (GEOM *)				12.0	242.2	0.117	0.82	0.469		7.6	3.200
# SAMP IN STATISTICS		8		8	8	8	7	7		6	8
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT	
			K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC	
		NO2+NO3N	TOTAL	UNF.TOT.		UNF.TOT.	UNF.REAC		UNF.TOT.	
		FIL.REAC	MG/L	MG/L		MG/L	MG/L		MG/L	
SAMPLE		AS N	AS N	AS PB	PH	AS P	AS S04	TURB'ITY	AS ZN	
DATE	HR	NUMBER						FTU		
YYMMDD	LMT									
830312	1325	14517	0.675	0.490	0.003<	5.55	0.007	137.05	5.70	0.044
830422	0635	14532	0.250	0.580	0.003<	5.98	0.009	323.25	5.60	0.064
830527	1350	14573	0.290	0.720	0.003<	6.04	0.002<T	419.40	1.70	0.021
830625	1540	14628	0.285	0.730	0.009	6.09	0.004<T	465.50	2.20	0.039
830827	1500	14704	1.250	1.240	0.004	6.98	0.025	314.00	7.90	0.530
831001	1545	14739	0.170	0.680	0.003<	7.12	0.004	482.00	1.30	0.015
831028	1100	14762	0.185	0.660	0.003<	7.25	0.015	505.00	1.10	0.019
831126	1450	14813	0.315	0.440	0.003<	7.06	0.005	309.30	2.30	0.021
MAXIMUM		1.250	1.240	0.009	7.25	0.025	505.00	7.90	0.530	
ARITH MEAN		0.427	0.692	0.006	6.51	0.009<A	369.44	3.47	0.094	
GEOM MEAN		0.339	0.661		6.48	0.007<A	345.80	2.73	0.041	
MINIMUM		0.170	0.440	0.004	5.55	0.002	137.05	1.10	0.015	
STD DEV (GEOM *)		0.368	0.245		0.66	0.008<A	122.82	2.55	0.177	
# SAMP IN STATISTICS		8	8	2	8	8	8	8	8	
% SAMP (EXCLUDED)				75						

## 1983 WATER QUALITY DATA REGION 5

223

B.O.W./ SITE: MOOSE CREEK  
 SAMPLE POINT: DOWNSTREAM OF LEVACK  
 STATION TYPE: RIVER

STATION ID: 14-0028-018-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 38 07.29 LONG: 081 23 28.61 U T M: 17 0470050.0 5164500.0 4 REGION: 05 DISTANCE: 176.540

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	NIUT
				ALK	CONDUCT.	COPPER	DISOLVED	IRON			NICKEL
SAMPLE		SAMPLE	PROJECT	TOTAL	25C	UNF.TOT.	OXYGEN	UNF.TOT.		WATER	UNF.TOT.
DATE	HR	DEPTH	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	TEMP	MG/L
YYMMDD	LMT	M	CODE	AS CAC03	AT 25 C	AS CU	AS O	AS FE	COND.	DEG.C	AS NI
830312	1420	14520	0101	0.4<T	854.0	0.950	8.00	4.950	3 6 8		7.400
830422	1750	14538	0101	3.0	781.0	0.230	7.00	0.925	6 8 3	3.0	2.600
830527	1605	14579	0101	2.8	881.0	0.310	7.00	1.030	3 6 8	9.0	2.400
830625	1420	14624	0101	5.7	1119.0	0.100	6.00	0.310	6 8	21.0	1.700
830730	1400	14661	0101	19.4	1159.0	0.022	7.00	0.270	6 8	21.0	0.720
830827	1335	14698	0101	14.7	1241.0	0.062	6.00	0.250	6 8	21.0	1.600
831001	1415	14735	0101	2.4	1235.0	0.230	7.00	0.305	6 8 9	15.0	3.000
831028	0945	14758	0101	11.0	1196.0	0.230	7.00	0.670	6 8	4.0	1.600
831126	1345	14809	0101	9.4	1101.0	0.350	8.00	0.970	6 8	2.0	2.300
MAXIMUM		0.30		19.4	1241.0	0.950	8.00	4.950		21.0	7.400
ARITH MEAN		0.30		7.6<A	1063.0	0.276	7.00	1.076		12.0	2.591
GEOM MEAN				4.8<A	1049.0	0.177	6.97	0.646		8.6	2.154
MINIMUM		0.30		0.4	781.0	0.022	6.00	0.250		2.0	0.720
STD DEV (GEOM *)				6.4<A	176.5	0.276	0.71	1.488		8.5	1.926
# SAMP IN STATISTICS		9		9	9	9	9	9		8	9
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT
			K'DAHL N						
		NO2+NO3N	TOTAL	LEAD		PHOSPHOR	SULPHATE		ZINC
		FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.	UNF.REAC		UNF.TOT.
SAMPLE		MG/L	MG/L	MG/L		MG/L	MG/L	TURB'ITY	MG/L
DATE	HR	AS N	AS N	AS PB	PH	AS P	AS S04	FTU	AS ZN
YYMMDD	LMT								
830312	1420	0.900	2.270	0.003<	4.54	0.027	318.90	23.00	0.210
830422	1750	0.275	0.610	0.005<	5.66	0.018	317.75	7.10	0.082
830527	1605	0.350	0.600	0.003<	4.94	0.011	361.70	4.10	0.061
830625	1420	0.275	0.630	0.004	5.75	0.006	456.75	0.80	0.045
830730	1400	0.415	0.290	0.003<	7.05	0.004<T	506.75	0.85	0.014
830827	1335	0.405	0.260	0.003<	7.14	0.006	513.00	0.55	0.037
831001	1415	0.470	0.440	0.003<	5.26	0.005	534.00	2.20	0.072
831028	0945	0.580	0.600	0.012	6.86	0.019	510.00	4.20	0.065
831126	1345	0.750	0.690	0.003<	7.40	0.005	451.00	5.40	0.070
MAXIMUM		0.900	2.270	0.012	7.40	0.027	534.00	23.00	0.210
ARITH MEAN		0.491	0.710	0.008	6.07	0.011<A	441.09	5.36	0.073
GEOM MEAN		0.454	0.578		5.98	0.009<A	432.95	2.85	0.058
MINIMUM		0.275	0.260	0.004	4.54	0.004	317.75	0.55	0.014
STD DEV (GEOM *)		0.215	0.605		1.06	0.008<A	86.35	6.99	0.055
# SAMP IN STATISTICS		9	9	2	9	9	9	9	9
% SAMP (EXCLUDED)				77					



## 1983 WATER QUALITY DATA REGION 5

224

B.O.W./ SITE: SPANISH RIVER  
 SAMPLE POINT: AT HIGH FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02CF004

STATION ID: 14-0028-020-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 22 47.69 LONG: 081 34 15.06 U T M: 17 0456100.0 5136200.0 4 REGION: 05 DISTANCE: 85.454

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWFLOW
DATE	HOUR	SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	STREAM
YYMMDD	LMT	NUMBER	SUB-PROJ	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	FLOW
		M	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	M3
				AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	/S
830311	1840	14502	0101	14.9	0.060	0.75	53.0	0.002	12.00	0.175	73.100
830423	0745	14545	0101	11.5	0.078	0.71	45.7	0.003	11.00	0.205	149.000
830527	1700	14581	0101	7.9	0.074	0.71	41.0	0.001<	12.00	0.130	297.000
830624	1610	14604	0101	11.1	0.077	0.61	43.2	0.007	12.00	0.115	158.000
830729	1320	14643	0101	12.9	0.073	0.90	51.2	0.007	11.00	0.115	29.400
830826	1620	14680	0101	14.4	0.031	0.66	50.0	0.001		0.075	38.000
830930	1630	14716	0101	14.1	0.018	0.65	49.3	0.003	12.00	0.810	37.500
831028	0800	14754	0101	12.8			49.9	0.001	12.00	0.195	76.000
831125	1525	14790	0101	19.7	0.057	0.62	47.7	0.002	12.00	0.195	105.000
MAXIMUM		0.30		19.7	0.078	0.90	53.0	0.007	12.00	0.810	297.000
ARITH MEAN		0.30		13.3	0.058	0.70	47.9	0.003	11.75	0.224	107.000
GEOM MEAN				12.9	0.053	0.70	47.7		11.74	0.174	82.176
MINIMUM		0.30		7.9	0.018	0.61	41.0	0.001	11.00	0.075	29.400
STD DEV (GEOM *)				3.2	0.023	0.09	3.9		0.46	0.224	85.288
# SAMP IN STATISTICS		9		9	8	8	9	8	8	9	9
% SAMP (EXCLUDED)								11			

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PHNOL	PP04FR
DATE	HOUR	SAMPLE	STREAM	NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		PHENOLS	P04
YYMMDD	LMT	NUMBER	COND.	UNF.TOT.	TOTAL	FIL.REAC	UNF.REAC	UNF.TOT.		UNF-REAC	FIL.REAC
			DEG.C	MG/L	MG/L	MG/L	MG/L	MG/L		UG/L	MG/L
				AS NI	AS N	AS N	AS N	AS PB	PH	PHENOL	AS P
830311	1840	14502	3 6 8	0.001<	0.010			0.004	7.45		0.0010<T
830423	0745	14545	6 8	0.002<	0.032			0.003<	7.05		0.0015<T
830527	1700	14581	6 8	0.002<	0.014			0.003<	6.86	0.2<T	0.0010<T
830624	1610	14604	6 8	0.003	0.030			0.004	6.78	1.8	0.0010<T
830729	1320	14643	6 8	0.011	0.172			0.003<	7.31	0.2<W	0.0010<T
830826	1620	14680		0.002<	0.024			0.003<	7.03	1.8	0.0005<W
830930	1630	14716	6 8	0.002<	0.022			0.003<	7.15	0.4<T	0.0010<T
831028	0800	14754	6 8	0.002<		0.075	0.280	0.003<	7.30		
831125	1525	14790	6 8	0.004	0.014			0.003<	7.08	0.4<T	0.0010<T
MAXIMUM			21.0	0.011	0.172	0.075	0.280	0.004	7.45	1.8	0.0015
ARITH MEAN			10.7	0.006	0.040	0.075	0.280	0.004	7.11	0.8<A	0.0010<A
GEOM MEAN			8.0		0.025				7.11	0.5<A	0.0010<A
MINIMUM			3.0	0.003	0.010	0.075	0.280	0.004	6.78	0.2	0.0005
STD DEV (GEOM *)			7.9		0.054				0.22	0.8<A	0.0003<A
# SAMP IN STATISTICS			7	3	8	1	1	2	9	6	8
% SAMP (EXCLUDED)				66				77			

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

225

B.O.W./ SITE: SPANISH RIVER  
 SAMPLE POINT: AT HIGH FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02CF004

STATION ID: 14-0028-020-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 22 47.69 LONG: 081 34 15.06 U T M: 17 0456100.0 5136200.0 4 REGION: 05 DISTANCE: 85.454

*=INTERIM TEST-NAME:		PPUT	RSP	SS04UR	TURB	ZNUT
		PHOSPHOR		SULPHATE		ZINC
SAMPLE		UNF.TOT.	RESIDUE	UNF.REAC		UNF.TOT.
DATE	HR	MG/L	PARTIC.	MG/L	TURB'ITY	MG/L
YYMMDD	LMT	AS P	MG/L	AS S04	FTU	AS ZN
830311	1840	14502	0.007	4.640	0.85	0.011
830423	0745	14545	0.010	2.130	2.20	0.006
830527	1700	14581	0.009	1.840	1.00	0.002
830624	1610	14604	0.007	1.280	1.20	0.010
830729	1320	14643	0.011	2.180	0.85	0.025
830826	1620	14680	0.015	0.120<T	0.45	0.003
830930	1630	14716	0.004	0.500<T	1.10	0.004
831028	0800	14754	0.015	8.63	1.20	0.004
831125	1525	14790	0.008	0.450<T	1.50	0.005
MAXIMUM		0.015	4.640	8.63	2.20	0.025
ARITH MEAN		0.010	1.642<A	8.63	1.15	0.008
GEOM MEAN		0.009	1.040<A		1.06	0.006
MINIMUM		0.004	0.120	8.63	0.45	0.002
STD DEV (GEOM *)		0.004	1.450<A		0.49	0.007
# SAMP IN STATISTICS		9	8	1	9	9
% SAMP (EXCLUDED)						

## 1983 WATER QUALITY DATA REGION 5

226

B.O.W./ SITE: MINISTIC CREEK  
 SAMPLE POINT: AT FIRST BRIDGE ON AGNEW ROAD  
 STATION TYPE: RIVER

STATION ID: 14-0028-021-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 24 02.81 LONG: 081 32 10.57 U T M: 17 0458775.0 5138500.0 4 REGION: 05 DISTANCE: 87.385

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALKTI	COND25	DO	FWSTRC	FWTEMP	GACF	GACP
SAMPLE DATE	YEAR	DEPTH	PROJECT	ALK	ALK	CONDUCT.	DISOLVED		WATER	GROSS	GROSS
YYMMDD	LHT	M	SUB-PROJ	TOTAL	INFLECTN	25C	OXYGEN	STREAM	TEMP	ALPHA CT	ALPHA CT
			CODE	MG/L	POINT	UMHO/CM	MG/L	COND.	DEG.C	FILTERED	UNDISSOL
				AS CAC03	AS CAC03	AT 25 C	AS 0			MBQ/L	MBQ/L
830311		14503	0101		6.24	52.1	9.00	4 6 8			
830423	0810	14546	0101	6.6	3.56U	127.0	9.00	6 8	3.0		
830527	1725	14582	0101	7.5	4.18U	77.6	10.00	6 8	9.0		
830624	1635	14605	0101	23.1	21.27	311.0	9.00	6 8	21.0	160	40<
830729	1345	14644	0101	36.4	33.09	387.0	9.00	6 8	21.0		
830826	1650	14681	0101	35.9	33.76	376.0	10.00	6 8	21.0	40<	40<
830930	1600	14715	0101	25.1	22.47	260.0				60	40<
831028	0820	14755	0101	14.0	12.21	135.0	10.00	6 8	4.0	70	40<
831125	1500	14789	0101	12.5	5.16	75.0	10.00	6 8	2.0		
MAXIMUM		0.30		36.4	33.76	387.0	10.00		21.0	160	
ARITH MEAN		0.30		20.1	15.77	200.1	9.50		11.6	97	
GEOM MEAN				16.9	11.35	157.9	9.49		7.9		
MINIMUM		0.30		6.6	3.56	52.1	9.00		2.0	60	
STD DEV (GEOM *)				11.9	12.24	134.1	0.53		9.1		
# SAMP IN STATISTICS		9		8	9	9	8		7	3	
% SAMP (EXCLUDED)										25	
*=INTERIM TEST-NAME:		GBCF	GBCP	NNHTFR	NNOTFR	NNTKUR	PH	PPUT	RA226F	SS04UR	TURB
SAMPLE DATE	YEAR	GROSS	GROSS	NH3-N	NO2+NO3N	K'DAHL N		PHOSPHOR		SULPHATE	
YYMMDD	LHT	BETA CT	BETA CT	TOTAL	FIL.REAC	TOTAL		UNF.TOT.	RADIUM	UNF.REAC	TURB'ITY
		MBQ/L	MBQ/L	MG/L	MG/L	MG/L	PH	MG/L	226 FIL.	MG/L	FTU
				AS N	AS N	AS N		AS P	MBQ/L	AS S04	
830311				0.008	0.585	0.370	7.08	0.017		10.10	1.30
830423	0810			0.008	1.090	0.310	6.33	0.012		42.03	1.80
830527	1725			0.150	0.265	0.530	6.64	0.016		23.81	2.80
830624	1635	40<	40<	0.004<T	1.270	0.250	7.27	0.017	40<	120.40	1.50
830729	1345			0.004<T	1.250	0.290	6.70	0.013		145.45	3.50
830826	1650	50	40<	0.024	1.030	0.400	7.40	0.010	40<	133.00	1.75
830930	1600	80	40<	0.022	0.870	0.460	7.15	0.009	40<	86.70	2.60
831028	0820	50	40<	0.026	0.440	0.500	7.24	0.018	40<	42.89	2.30
831125	1500			0.024	0.440	0.430	6.79	0.014		20.96	2.90
MAXIMUM		80		0.150	1.270	0.530	7.40	0.018		145.45	3.50
ARITH MEAN		60		0.030<A	0.804	0.393	6.96	0.014		69.48	2.27
GEOM MEAN				0.015<A	0.711	0.382	6.95	0.014		49.65	2.16
MINIMUM		50		0.004	0.265	0.250	6.33	0.009		10.10	1.30
STD DEV (GEOM *)				0.046<A	0.380	0.097	0.36	0.003		52.59	0.74
# SAMP IN STATISTICS		3		9	9	9	9	9		9	9
% SAMP (EXCLUDED)		25									

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

227

B.O.W./ SITE: MINISTIC CREEK  
 SAMPLE POINT: AT FIRST BRIDGE ON AGNEW ROAD  
 STATION TYPE: RIVER

STATION ID: 14-0028-021-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 24 02.81 LONG: 081 32 10.57 U T M: 17 0458775.0 5138500.0 4 REGION: 05 DISTANCE: 87.385

*=INTERIM TEST-NAME:		UUUT	UU238
		URANIUM	
SAMPLE		UNF.TOT.	URANIUM
DATE HOUR	SAMPLE	MG/L	238
YYMMDD LMT	NUMBER	AS U	UG/L
830311	14503	0.001	
830423 0810	14546	0.001<	
830527 1725	14582	0.001	
830624 1635	14605	0.001<	3
830729 1345	14644	0.006	
830826 1650	14681		3<
830930 1600	14715	0.001	3<
831028 0820	14755		3<
831125 1500	14789	0.001<	
	MAXIMUM	0.006	3
	ARITH MEAN	0.002	3
	GEOM MEAN		
	MINIMUM	0.001	3
	STD DEV (GEOM *)		
# SAMP IN STATISTICS	4		1
% SAMP (EXCLUDED)	42		75

## 1983 WATER QUALITY DATA REGION 5

228

B.O.W./ SITE: ONAPINE RIVER  
 SAMPLE POINT: WINDY CREEK DNSTR HWY 144  
 STATION TYPE: RIVER

STATION ID: 14-0028-026-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 36 26.94 LONG: 081 23 04.38 U T M: 17 0470550.0 5161400.0 4 REGION: 05 DISTANCE: 17.760

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	NIUT
				ALK	CONDUCT.	COPPER	DISOLVED	IRON			NICKEL
SAMPLE		SAMPLE	PROJECT	TOTAL	25C	UNF. TOT.	OXYGEN	UNF. TOT.		WATER	UNF. TOT.
DATE	HR	DEPTH	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	TEMP	MG/L
YYMMDD	LMT	NUMBER	CODE	AS CAC03	AT 25 C	AS CU	AS O	AS FE	COND.	DEG.C	AS NI
830422	1840	14540	0101	4.1	58.5	0.022	12.00	0.045	6 8	3.0	0.096
830527	0850	14572	0101	5.9	62.6	0.032	12.00	0.105	6 8	9.0	0.100
830625	1310	14621	0101	2.8	152.0	0.220	12.00	0.260	6 8	20.0	1.300
830730	1250	14658	0101	7.2	124.0	0.180	11.00	0.355	6 8	20.0	1.000
830827	1225	14695	0101	14.9	101.8	0.038	12.00	0.275	6 8	21.0	0.420
831001	1310	14732	0101	5.2	203.0	0.380	11.00	0.260	6 8	15.0	1.700
831028	1145	14764	0101	4.6	57.8	0.035	11.00	0.115	6 8	4.0	0.100
831126	1255	14806	0101	5.2	61.7	0.073	12.00	0.260	6 8	2.0	0.200
MAXIMUM		0.30		14.9	203.0	0.380	12.00	0.355		21.0	1.700
ARITH MEAN		0.30		6.2	102.7	0.122	11.62	0.209		11.7	0.614
GEOM MEAN				5.6	91.9	0.075	11.61	0.176		8.5	0.340
MINIMUM		0.30		2.8	57.8	0.022	11.00	0.045		2.0	0.096
STD DEV (GEOM *)				3.7	53.7	0.128	0.52	0.107		8.2	0.633
# SAMP IN STATISTICS		8		8	8	8	8	8		8	8
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT
		K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC
SAMPLE		TOTAL	UNF. TOT.		UNF. TOT.	UNF. REAC		UNF. TOT.
DATE	HR	MG/L	MG/L	MG/L	MG/L	MG/L	TURB'ITY	MG/L
YYMMDD	LMT	AS N	AS N	AS PB	AS P	AS S04	FTU	AS ZN
830422	1840	0.105	0.140	0.003<	6.42	0.007	11.25	0.012
830527	0850	0.090	0.130	0.003<	6.86	0.003<T	12.14	0.006
830625	1310	0.130	0.150	0.004	5.31	0.003<T	30.92	0.036
830730	1250	0.095	0.150	0.003<	5.28	0.002<T	27.09	0.029
830827	1225	0.025	0.200	0.003<	6.28	0.007	20.43	0.010
831001	1310	0.085	0.140	0.003<	4.42	0.006	50.60	0.044
831028	1145	0.045	0.160	0.003	6.88	0.011	12.49	0.016
831126	1255	0.065	0.110	0.003<	6.93	0.003<T	15.18	0.014
MAXIMUM		0.130	0.200	0.004	6.93	0.011	50.60	0.044
ARITH MEAN		0.080	0.147	0.003	6.05	0.005<A	22.51	0.021
GEOM MEAN		0.072	0.146		5.98	0.005<A	19.67	0.017
MINIMUM		0.025	0.110	0.003	4.42	0.002	11.25	0.006
STD DEV (GEOM *)		0.034	0.026		0.93	0.003<A	13.49	0.014
# SAMP IN STATISTICS		8	8	2	8	8	8	8
% SAMP (EXCLUDED)				75				



## 230

STATION ID: 14-0028-033-02

STORET CODE: 02  
002  
7950

DISTANCE: 154.171

[illegible]

## 1983 WATER QUALITY DATA REGION 5

231

B.O.W./ SITE: SPANISH RIVER  
 SAMPLE POINT: AT BRIDGE SOUTH OF THE TOWN OF MASSEY  
 STATION TYPE: RIVER

STATION ID: 14-0028-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 12 27.42 LONG: 082 03 58.26

U T M: 17 0417750.0 5117450.0 4

REGION: 05

DISTANCE: 30.094

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	ALKT	CDUT	CDUT	COND25	CUUT	CUUT	DO	FEUT
SAMPLE	DATE HOUR	SAMPLE	PROJECT	ALK	CADMIUM	CADMIUM	CONDUCT.	COPPER	COPPER	DISOLVED	IRON
YYMMDD	LHT	NUMBER	SUB-PROJ	TOTAL	UNF.TOT.	UNF.TOT.	25C	UNF.TOT.	UNF.TOT.	OXYGEN	UNF.TOT.
		DEPTH	CODE	MG/L	MG/L	UG/G DRY	UMHO/CM	MG/L	UG/G DRY	MG/L	MG/L
		M		AS CAC03	AS CD	AS CD	AT 25 C	AS CU	AS CU	AS O	AS FE
830309	0900	41000	0103	14.8	0.0002		85.8	0.005		11.00	
830311	0900	41001	0103		0.0003			0.003			
830316	0900	41002	0103					0.026			
830318	0900	41003	0103		0.0003			0.005			
830322	0900	41004	0103		0.0002<			0.007			
830325	0900	41005	0103		0.0002<			0.006			
830328	0900	41006	0103		0.0002<			0.006			
830331	0900	41007	0103	14.4	0.0002<		137.0	0.005			
830405	0900	41008	0103	18.1	0.0002<		128.0	0.005		12.00	
830407	0900	41009	0103	17.2	0.0002<		120.0	0.005			
830412	0900	41010	0103	16.0	0.0002<		104.0				
830414	0900	41011	0103	19.2	0.0004		107.0	0.006			
830418	0900	41012	0103	18.3	0.0005		97.8	0.009			
830419	0900	41013	0103	14.6	0.0004		102.0	0.020			
	1130	83119	0103	11.3	0.0006		62.7	0.005			
830420	0900	41014	0103	14.9	0.0009		94.9	0.010			
830421	0900	41015	0103	15.0	0.0006		92.0	0.032			
830422	0900	41016	0103	18.7	0.0004		95.1	0.014			
830425	0900	41017	0103	12.8	0.0002		84.8	0.010			
830426	0900	41018	0103	12.8	0.0002<		79.1	0.004			
830429	0900	41019	0103	11.3	0.0002<		73.9	0.017			
830502	1000	41020	0103	11.9	0.0002<		69.5	0.014		15.00	
830505	0900	41021	0103	9.6	0.0002		62.3	0.006			
830509	0900	41022	0103	10.1	0.0003<		62.5	0.016			
830512	0900	41023	0103	11.2			69.4	0.020			
830516	0900	41024	0103	14.9	0.0003		73.2	0.018			
830519	0900	41025	0103	11.6	0.0002<		73.5	0.008			
830524	0900	41026	0103	17.2	0.0002<		74.5				
830526	0900	41027	0103	12.6	0.0004		108.0	0.006			
830530	0900	41028	0103	16.0	0.0003		75.3	0.023			
830602	0900	41029	0103	12.0	0.0003		62.8	0.006		11.00	
830606	0900	41030	0103	12.1	0.0002<		68.4	0.005			
830609	0930	41031	0103	10.3	0.0004		64.9	0.008			
830613	0900	41032	0103	10.0	0.0002<		65.0	0.005			
830616	0900	41033	0103	9.9	0.0002<		57.7	0.016			
830620	0900	41034	0103	11.4	0.0002<		66.1	0.003			
830623	0930	41035	0103	12.1	0.0002<		62.3	0.007			
830627	0900	41036	0103	13.6	0.0002<		65.9	0.003			
830630	0900	41037	0103	12.6	0.0002<		69.9				
830704	0900	41038	0103	13.4	0.0002<		70.3	0.006		8.00	
830707	0900	41039	0103	22.6			91.2	0.003		6.00	

( C O N T D )



## 1983 WATER QUALITY DATA REGION 5

232

B.O.W./ SITE: SPANISH RIVER  
 SAMPLE POINT: AT BRIDGE SOUTH OF THE TOWN OF MASSEY  
 STATION TYPE: RIVER

STATION ID: 14-0028-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 12 27.42 LONG: 082 03 58.26 U T M: 17 0417750.0 5117450.0 4 REGION: 05 DISTANCE: 30.094

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	ALKT	CDUT	CDUT	COND25	CUUT	CUUT	DO	FEUT
SAMPLE	DATE	DEPTH	PROJECT	ALK	CADMIUM	CADMIUM	CONDUCT.	COPPER	COPPER	DISOLVED	IRON
YHMD LHT	NUMBER	M	SUB-PROJ	TOTAL	UNF.TOT.	UNF.TOT.	25C	UNF.TOT.	UNF.TOT.	OXYGEN	UNF.TOT.
			CODE	MG/L	MG/L	UG/G DRY	UMHO/CM	MG/L	UG/G DRY	MG/L	MG/L
				AS CAC03	AS CD	AS CD	AT 25 C	AS CU	AS CU	AS O	AS FE
830708	0900	41040	0.30	0103	30.7	0.0003	117.6	0.041		5.00	
830714	0930	41041	0.30	0103	26.1	0.0008	98.3	0.005		5.00	
830721	0900	41042	0.30	0103	19.7	0.0004	108.8	0.004		6.00	
830728	0900	41043	0.30	0103		0.0003		0.003		5.00	
830804	0900	41044	0.30	0103	22.8		99.2	0.038		4.00	
830811	0900	41045	0.30	0103	18.5	0.0002	82.5	0.002		5.00	
830818	0900	41046	0.30	0103	19.6	0.0002	88.4			6.00	
830825	0930	41047	0.30	0103	18.4	0.0004	92.0	0.004			
830826	1545	14679	0.30	0101	31.6		265.0	0.005		12.00	0.060
830901	0930	41048	0.30	0103	20.0	0.0007	113.7	0.057		6.00	
830909	0930	41049	0.30	0103	18.5	0.0002	71.4	0.005			
830915	0900	41050	0.30	0103	26.4	0.0002	106.4	0.017			
830921	1030	83264	0.30	0103			76		5.00		
830922	0900	41051	0.30	0103	31.4	0.0002<	119.7	0.004			
830930	0900	41052	0.30	0103	22.9	0.0002<	134.0	0.012			
831006	0900	41053	0.30	0103	20.2	0.0003	103.1			8.00	
831014	0930	41054	0.30	0103	19.7	0.0002<	105.8	0.008			
831020	0900	41055	0.30	0103	17.3	0.0002<	1161.0	0.004			
831027	0900	41056	0.30	0103	21.6	0.0007	101.0	0.004			
831107	0900	41057	0.30	0103	21.4		132.0			11.00	
831111	0900	41058	0.30	0103	22.0	0.0004	144.0	0.005			
831117	0900	41059	0.30	0103	19.7	0.0003	127.5				
831124	0900	41060	0.30	0103	16.7	0.0002<	93.3	0.005			
831201	0900	41061	0.30	0103	29.0	0.0003	119.0	0.014		13.00	
831208	0900	41062	0.30	0103	20.0	0.0003	138.0	0.006			
		MAXIMUM	0.30		31.6	0.0009	0.40	1161.0	0.057	5.00	0.060
		ARITH MEAN	0.30		17.2	0.0004	0.40	114	0.011	5.00	0.060
		GEOM MEAN			16.4			96	0.008		7.63
		MINIMUM	0.30		9.6	0.0002	0.40	57.7	0.002	5.00	4.00
		STD DEV (GEOM *)			5.6			143	0.011		3.43
		# SAMP IN STATISTICS	66		58	33	1	59	58	1	18
		% SAMP (EXCLUDED)				44					1

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

233

B.O.W./ SITE: SPANISH RIVER  
 SAMPLE POINT: AT BRIDGE SOUTH OF THE TOWN OF MASSEY  
 STATION TYPE: RIVER

STATION ID: 14-0028-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 12 27.42 LONG: 082 03 58.26 U T M: 17 0417750.0 5117450.0 4 REGION: 05 DISTANCE: 30.094

*=INTERIM		TEST-NAME:	FWSTRC	FWTEMP	HGUT	HGUT	NIUT	NNOTFR	NN02FR	NN03FR	NNTKUR	PBUT
SAMPLE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
YMMDD	YMMDD	YMMDD	YMMDD	YMMDD	YMMDD	YMMDD	YMMDD	YMMDD	YMMDD	YMMDD	YMMDD	YMMDD
HOUR	HOUR	HOUR	HOUR	HOUR	HOUR	HOUR	HOUR	HOUR	HOUR	HOUR	HOUR	HOUR
LMT	LMT	LMT	LMT	LMT	LMT	LMT	LMT	LMT	LMT	LMT	LMT	LMT
SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE
NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
STREAM	STREAM	STREAM	STREAM	STREAM	STREAM	STREAM	STREAM	STREAM	STREAM	STREAM	STREAM	STREAM
COND.	COND.	COND.	COND.	COND.	COND.	COND.	COND.	COND.	COND.	COND.	COND.	COND.
WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP
DEG.C	DEG.C	DEG.C	DEG.C	DEG.C	DEG.C	DEG.C	DEG.C	DEG.C	DEG.C	DEG.C	DEG.C	DEG.C
MERCURY	MERCURY	MERCURY	MERCURY	MERCURY	MERCURY	MERCURY	MERCURY	MERCURY	MERCURY	MERCURY	MERCURY	MERCURY
UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.
UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AS HG	AS HG	AS HG	AS HG	AS HG	AS HG	AS HG	AS HG	AS HG	AS HG	AS HG	AS HG	AS HG
NICKEL	NICKEL	NICKEL	NICKEL	NICKEL	NICKEL	NICKEL	NICKEL	NICKEL	NICKEL	NICKEL	NICKEL	NICKEL
UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.
MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
AS NI	AS NI	AS NI	AS NI	AS NI	AS NI	AS NI	AS NI	AS NI	AS NI	AS NI	AS NI	AS NI
NO2+NO3N	NO2+NO3N	NO2+NO3N	NO2+NO3N	NO2+NO3N	NO2+NO3N	NO2+NO3N	NO2+NO3N	NO2+NO3N	NO2+NO3N	NO2+NO3N	NO2+NO3N	NO2+NO3N
FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC
MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N
NO2-N	NO2-N	NO2-N	NO2-N	NO2-N	NO2-N	NO2-N	NO2-N	NO2-N	NO2-N	NO2-N	NO2-N	NO2-N
FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC
MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N
NO3-N	NO3-N	NO3-N	NO3-N	NO3-N	NO3-N	NO3-N	NO3-N	NO3-N	NO3-N	NO3-N	NO3-N	NO3-N
FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC
MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N
NNTKUR	NNTKUR	NNTKUR	NNTKUR	NNTKUR	NNTKUR	NNTKUR	NNTKUR	NNTKUR	NNTKUR	NNTKUR	NNTKUR	NNTKUR
K'DAHL N	K'DAHL N	K'DAHL N	K'DAHL N	K'DAHL N	K'DAHL N	K'DAHL N	K'DAHL N	K'DAHL N	K'DAHL N	K'DAHL N	K'DAHL N	K'DAHL N
TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
UNF.REAC	UNF.REAC	UNF.REAC	UNF.REAC	UNF.REAC	UNF.REAC	UNF.REAC	UNF.REAC	UNF.REAC	UNF.REAC	UNF.REAC	UNF.REAC	UNF.REAC
MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N	AS N
UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.
MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
AS PB	AS PB	AS PB	AS PB	AS PB	AS PB	AS PB	AS PB	AS PB	AS PB	AS PB	AS PB	AS PB
830309	0900	41000		0.1	0.01			0.290	0.044	0.546		0.003<
830311	0900	41001						0.300	0.0685	0.232		0.003
830316	0900	41002						0.450	0.0450	0.405		
830318	0900	41003						0.515	0.0030	0.510		0.008
830322	0900	41004						0.575	0.0035	0.572		0.003<
830325	0900	41005						0.605	0.0025	0.603		0.003<
830328	0900	41006						0.545	0.0040	0.540		0.003<
830331	0900	41007						0.535	0.0035	0.531		0.003<
830405	0900	41008						0.490	0.0020	0.488		0.003<
830407	0900	41009						0.455	0.0020	0.453		0.003<
830412	0900	41010										0.003<
830414	0900	41011						0.380	0.0020	0.378		0.003<
830418	0900	41012						0.350	0.0020	0.348		0.003<
830419	0900	41013						0.375	0.0160	0.359		0.003<
	1130	83119			0.01			0.225	0.0170	0.208		0.003<
830420	0900	41014						0.310	0.0015<T	0.309		0.003<
830421	0900	41015						0.300	0.0020	0.298		0.003
830422	0900	41016						0.280	0.0020	0.278		0.003<
830425	0900	41017						0.265	0.0185	0.247		0.003<
830426	0900	41018						0.235	0.0260	0.209		0.003<
830429	0900	41019						0.235	0.0030	0.232		0.003<
830502	1000	41020		0.6	0.04<			0.220	0.0045	0.216		0.003
830505	0900	41021						0.165	0.0015<T	0.164		0.005
830509	0900	41022										0.004<
830516	0900	41024						0.140	0.0150	0.129		0.003<
830519	0900	41025						0.135	0.0020	0.133		0.003<
830524	0900	41026						0.105	0.0065	0.099		0.003<
830526	0900	41027						0.130	0.0110	0.119		0.003<
830530	0900	41028						0.100	0.0085	0.092		0.003<
830602	0900	41029		1.2	0.02<			0.085	0.0045	0.081		0.003<
830606	0900	41030						0.100	0.0045	0.096		0.003<
830609	0930	41031						0.080	0.0080	0.072		0.003<
830613	0900	41032						0.085	0.0050	0.080		0.003<
830616	0900	41033						0.055	0.0040	0.051		0.003<
830620	0900	41034						0.240	0.0110	0.229		0.003<
830623	0930	41035						0.070	0.0040	0.066		0.003<
830627	0900	41036						0.100	0.0050	0.095		0.003<
830630	0900	41037						0.080	0.0040	0.076		0.003<
830704	0900	41038			0.02			0.075	0.0050	0.070		0.003<
830707	0900	41039						0.005<T	0.0040			0.003<

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

234

B.O.W./ SITE: SPANISH RIVER  
 SAMPLE POINT: AT BRIDGE SOUTH OF THE TOWN OF MASSEY  
 STATION TYPE: RIVER

STATION ID: 14-0028-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 12 27.42 LONG: 082 03 58.26

U T M: 17 0417750.0 5117450.0 4

REGION: 05

DISTANCE: 30.094

*=INTERIM		TEST-NAME:	FWSTRC	FWTEMP	HGUT	HGUT	NIUT	NNOTFR	NN02FR	NN03FR	NNTKUR K'DAHL N	PBUT
SAMPLE DATE YYMMDD	DATE HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	MERCURY UNF.TOT. UG/L AS HG	MERCURY UNF.TOT. UG/G DRY AS HG	NICKEL UNF.TOT. MG/L AS NI	N02+N03N FIL.REAC MG/L AS N	N02-N FIL.REAC MG/L AS N	N03-N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB
830708	0900	41040						0.010<T	0.0080			0.003<
830714	0930	41041						0.020	0.0070	0.013		0.003<
830721	0900	41042						0.025	0.0050	0.020		0.003<
830728	0900	41043										0.003<
830804	0900	41044		2.2	0.02			0.050	0.0070	0.043		0.003<
830811	0900	41045						0.050	0.0035	0.047		0.003<
830818	0900	41046										0.003<
830825	0930	41047						0.065	0.0050	0.060		0.003<
830826	1545	14679	6 8	20.0			0.026	0.050			0.330	0.003<
830901	0930	41048			0.01<			0.050	0.0040	0.046		0.007
830909	0930	41049						0.055	0.0030	0.052		0.003<
830915	0900	41050						0.050	0.0040	0.046		0.003<
830921	1030	83264				0.01<						
830922	0900	41051						0.055	0.0030	0.052		0.003<
830930	0900	41052						0.070	0.0040	0.066		0.003<
831006	0900	41053			0.01U			0.070	0.0030	0.067		0.003<
831014	0930	41054						0.095	0.0030	0.092		0.003<
831020	0900	41055						0.090	0.0060	0.084		0.003<
831027	0900	41056						0.080	0.0050	0.075		0.003<
831107	0900	41057			0.01			0.090	0.0050	0.085		0.003<
831111	0900	41058						0.085	0.0060	0.079		0.003<
831117	0900	41059						0.105	0.0060	0.099		0.003<
831124	0900	41060						0.120	0.0050	0.115		0.003
831201	0900	41061		1.2				0.115	0.0045	0.111		0.003
831208	0900	41062						0.140	0.0060	0.134		0.003
MAXIMUM				20.0	0.02		0.026	0.605	0.0685	0.603	0.330	0.008
ARITH MEAN				4.2	0.01		0.026	0.187<A	0.008 <A	0.193	0.330	0.004
GEOM MEAN				1.2				0.124<A	0.005 <A	0.133		
MINIMUM				0.1	0.01		0.026	0.005	0.0015	0.013	0.330	0.003
STD DEV (GEOM *)				7.8				0.163<A	0.012 <A	0.168		
# SAMP IN STATISTICS				6	6		1	60	59	57	1	9
% SAMP (EXCLUDED)					33							85

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

235

B.O.W./ SITE: SPANISH RIVER  
 SAMPLE POINT: AT BRIDGE SOUTH OF THE TOWN OF MASSEY  
 STATION TYPE: RIVER

STATION ID: 14-0028-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 12 27.42 LONG: 082 03 58.26

U T M: 17 0417750.0 5117450.0 4

REGION: 05

DISTANCE: 30.094

*INTERIM TEST-NAME:		PBUT	PH	PHNOL	PP04FR	PPUT	PPUT	P1ALDR	P1BHCA	P1BHCB	P1BHCG
		LEAD		PHENOLS	PO4	PHOSPHOR	PHOSPHOR				
SAMPLE		UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	UNF.TOT.		BHC	BHC	BHC
DATE	UNF.TOT.	UG/G DRY	PH	UG/L	MG/L	MG/L	MG/G DRY	ALDRIN	ALPHA	ETA	GAMMA
YYMMDD	LMT	NUMBER	AS PB	PHENOL	AS P	AS P	AS P	NG/G DRY	NG/G DRY	NG/G DRY	NG/G DRY
830309	0900	41000		7.18	6.4	0.0080	0.039				
830311	0900	41001		6.76		0.0010<T	0.016				
830316	0900	41002		7.11		0.0040	0.013				
830318	0900	41003		6.74		0.0020<T	0.014				
830322	0900	41004		7.11		0.0035	0.012				
830325	0900	41005		7.40		0.0030	0.015				
830328	0900	41006		7.27	2.8	0.0040	0.020				
830331	0900	41007		7.40		0.0070	0.021				
830405	0900	41008		7.56	0.8	0.0070	0.026				
830407	0900	41009		6.80		0.0040	0.031				
830412	0900	41010		7.43			0.031				
830414	0900	41011		8.23		0.0035	0.033				
830418	0900	41012		7.16		0.0020	0.033				
830419	0900	41013		7.17		0.0050	0.019				
	1130	83119		7.04		0.0020<T	0.017				
830420	0900	41014		7.08		0.0050	0.038				
830421	0900	41015		6.79		0.0060	0.037				
830422	0900	41016		6.86		0.0040	0.029				
830425	0900	41017		6.88		0.0060	0.026				
830426	0900	41018		7.02		0.0020<T	0.024				
830429	0900	41019		6.67	3.0		0.019				
830502	1000	41020		6.90		0.0035	0.027				
830505	0900	41021		6.74		0.0010<T	0.026				
830509	0900	41022		6.85			0.017				
830512	0900	41023		7.10			0.011				
830516	0900	41024		6.96	4.4	0.0050	0.024				
830519	0900	41025		8.10		0.0010<T	0.017				
830524	0900	41026		7.14	4.8	0.0010<T	0.037				
830526	0900	41027		7.02		0.0020<T	0.022				
830530	0900	41028		7.20		0.0050	0.072				
830602	0900	41029		7.00	1.6	0.0030	0.038				
830606	0900	41030		6.93		0.0010<T	0.018				
830609	0930	41031		6.78	1.8	0.0035	0.051				
830613	0900	41032		6.93		0.0010<T	0.022				
830616	0900	41033		6.85	3.6	0.0050	0.017				
830620	0900	41034		6.75		0.0020<T	0.019				
830623	0930	41035		6.98	2.0	0.0050	0.020				
830627	0900	41036		6.98		0.0030	0.017				
830630	0900	41037		7.20	0.6<T	0.0010<T	0.012				
830704	0900	41038		7.09	1.4	0.0020<T	0.012				
830707	0900	41039		6.92			0.020				

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

236

B.O.W./ SITE: SPANISH RIVER  
 SAMPLE POINT: AT BRIDGE SOUTH OF THE TOWN OF MASSEY  
 STATION TYPE: RIVER

STATION ID: 14-0028-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 12 27.42 LONG: 082 03 58.26

U T M: 17 0417750.0 5117450.0 4

REGION: 05

DISTANCE: 30.094

*INTERIM TEST-NAME:		PBUT LEAD	PH	PHNOL PHENOLS	PP04FR P04	PPUT PHOSPHOR	PPUT PHOSPHOR	P1ALDR	P1BHCA	P1BHCB	P1BHCG
SAMPLE DATE	HOUR LHT	SAMPLE NUMBER	UNF.TOT. UG/G DRY AS PB	UNF-REAC UG/L PH	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P	UNF.TOT. MG/G DRY AS P	ALDRIN NG/G DRY	BHC ALPHA NG/G DRY	BHC BETA NG/G DRY	BHC GAMMA NG/G DRY
830708	0900	41040		7.00	56.0	0.0010<T	0.018				
830714	0930	41041		6.64		0.0010<T	0.027				
830721	0900	41042		6.60	5.4		0.016				
830804	0900	41044		6.45	2.2	0.0070	0.042				
830811	0900	41045		6.87		0.0050	0.017				
830818	0900	41046		8.66	1.4		0.031				
830825	0930	41047		6.88		0.0030	0.023				
830826	1545	14679		7.80			0.013				
830901	0930	41048		8.10	0.8	0.0040	0.018				
830909	0930	41049		7.16		0.0030	0.017				
830915	0900	41050		8.13	0.2<T	0.0040	0.021				
830921	1030	83264	5.00<	6.7			0.2	1<W	1<W	1<W	1<W
830922	0900	41051		7.17		0.0040	0.027				
830930	0900	41052		7.25	1.2	0.0030	0.021				
831006	0900	41053		7.20	0.2<T	0.0020<T	0.018				
831014	0930	41054		7.18		0.0040	0.030				
831020	0900	41055		7.34	1.4	0.0040					
831027	0900	41056		7.28		0.0010<T	0.032				
831107	0900	41057		7.25	0.2<T		0.015				
831111	0900	41058		7.20		0.0020<T	0.020				
831117	0900	41059		7.13	1.6	0.0070	0.011				
831124	0900	41060		7.54							
831201	0900	41061		7.00		0.0015<T	0.024				
831208	0900	41062		7.37		0.0045	0.014				
MAXIMUM				8.66	56.0	0.0080	0.072	0.2	1	1	1
ARITH MEAN				7.1	4.5<A	0.0034<A	0.024	0.2	1<A	1<A	1<A
GEOM MEAN				7.1	1.7<A	0.0029<A	0.022				
MINIMUM				6.45	0.2	0.0010	0.011	0.2	1	1	1
STD DEV (GEOM *)				0.4	11.4<A	0.0019<A	0.011				
# SAMP IN STATISTICS				65	23	54	62	1	1	1	1
% SAMP (EXCLUDED)											

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

237

B.O.W./ SITE: SPANISH RIVER  
 SAMPLE POINT: AT BRIDGE SOUTH OF THE TOWN OF MASSEY  
 STATION TYPE: RIVER

STATION ID: 14-0028-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 12 27.42 LONG: 082 03 58.26

U T M: 17 0417750.0 5117450.0 4

REGION: 05

DISTANCE: 30.094

*=INTERIM TEST-NAME:		PICHLA	PICHLG	PIDIEL	PIDMDT	PIENDR	PIENDS	PIEND1	PIEND2	PIHEPE	PIHEPT
SAMPLE DATE	HOUR	CHLRDANE ALPHA	CHLRDANE GAMMA	DIELDRLN	DMDT	ENDRLN	ENDOSULP SULPHATE	ENDOSULP I	ENDOSULP II	HEPTA CHLOR EPOXIDE	HEPACHOR
YYMMDD	LMT	NG/G DRY	NG/G DRY	NG/G DRY	NG/G DRY	NG/G DRY	NG/G DRY	NG/G DRY	NG/G DRY	NG/G DRY	NG/G DRY
830921	1030	83264	1	2<W	2<W	4<W	4<W	4<W	2<W	4<W	1<W
		MAXIMUM	1	2	2	4	4	4	2	4	1
		ARITH MEAN	1	2<A	2<A	4<A	4<A	4<A	2<A	4<A	1<A
		GEOM MEAN									
		MINIMUM	1	2	2	4	4	4	2	4	1
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS	1	1	1	1	1	1	1	1	1
		% SAMP (EXCLUDED)									

*=INTERIM TEST-NAME:		PIMIRX	PIOCHL	PIOPDT	P1PCBT	P1PPDD	P1PPDE	P1PPDT	RSP	RSTLOI	SS04UR
SAMPLE DATE	HOUR	MIREX	OXCHLANE	OP-DDT	PCB TOTAL	PP-DDD	PP-DDE	PP-DDT	RESIDUE PARTIC.	RESIDUE TOTAL	SULPHATE UNF.REAC
YYMMDD	LMT	NG/G DRY	NG/G DRY	NG/G DRY	NG/G DRY	NG/G DRY	NG/G DRY	NG/G DRY	MG/L	%	MG/L AS S04
830309	0900	41000									17.900
830311	0900	41001									26.900
830316	0900	41002									4.120
830318	0900	41003									4.830
830322	0900	41004									4.410
830325	0900	41005									4.580
830328	0900	41006									14.500
830331	0900	41007									2.820
830405	0900	41008									6.860
830407	0900	41009									8.650
830412	0900	41010									18.700
830414	0900	41011									24.400
830418	0900	41012									19.500
830419	0900	41013									14.200
	1130	83119									19.600
830420	0900	41014									18.800
830421	0900	41015									9.940
830422	0900	41016									14.900
830425	0900	41017									8.720
830426	0900	41018									6.790
830429	0900	41019									4.900
830502	1000	41020									7.010
830505	0900	41021									7.930
830509	0900	41022									50.100
830512	0900	41023									6.420

( CONTD )

## 1983 WATER QUALITY DATA REGION 5

238

B.O.W./ SITE: SPANISH RIVER  
 SAMPLE POINT: AT BRIDGE SOUTH OF THE TOWN OF MASSEY  
 STATION TYPE: RIVER

STATION ID: 14-0028-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 12 27.42 LONG: 082 03 58.26

U T M: 17 0417750.0 5117450.0 4

REGION: 05

DISTANCE: 30.094

*INTERIM TEST-NAME:		P1MIRX	P1OCHL	P1OPDT	P1PCBT	P1PPDD	P1PPDE	P1PPDT	RSP	RSTLOI	SS04UR	
SAMPLE DATE	HR	SAMPLE NUMBER	MIREX NG/G DRY	OXCHLANE NG/G DRY	OP-DDT NG/G DRY	PCB TOTAL NG/G DRY	PP-DDD NG/G DRY	PP-DDE NG/G DRY	PP-DDT NG/G DRY	RESIDUE PARTIC. MG/L	RESIDUE TOTAL IGNITION %	SULPHATE UNF.REAC MG/L AS SO4
830516	0900	41024								3.580		
830519	0900	41025								3.440		
830524	0900	41026								33.400		
830526	0900	41027								15.900		
830530	0900	41028								65.200		
830602	0900	41029								21.200		
830606	0900	41030								11.400		
830609	0930	41031								10.900		
830616	0900	41033								5.670		
830620	0900	41034								3.340		
830623	0930	41035								4.140		
830627	0900	41036								3.320		
830630	0900	41037								3.750		
830704	0900	41038								4.600		
830707	0900	41039								3.720		
830708	0900	41040								1.330		
830714	0930	41041								3.540		
830721	0900	41042								2.810		
830804	0900	41044								10.600		
830811	0900	41045								2.730		
830818	0900	41046								3.970		
830825	0930	41047								3.480		
830826	1545	14679										66.30
830901	0930	41048								2.610		
830909	0930	41049								3.090		
830915	0900	41050								2.390		
830921	1030	83264	5<W	2<W	5<W	20<W	5<W	1<W	5<W		0.5	
830922	0900	41051								5.890		
830930	0900	41052								3.940		
831006	0900	41053								4.740		
831014	0930	41054								11.300		
831020	0900	41055								5.480		
831027	0900	41056								5.870		
831107	0900	41057								4.550		
831111	0900	41058								4.240		
831117	0900	41059								6.880		
831124	0900	41060								5.810		
831201	0900	41061								3.340		
831208	0900	41062								2.63		

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

239

B.O.W./ SITE: SPANISH RIVER  
 SAMPLE POINT: AT BRIDGE SOUTH OF THE TOWN OF MASSEY  
 STATION TYPE: RIVER

STATION ID: 14-0028-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 12 27.42 LONG: 082 03 58.26 U T M: 17 0417750.0 5117450.0 4 REGION: 05 DISTANCE: 30.094

*=INTERIM TEST-NAME:		P1MIRX	P1OCHL	P1OPDT	P1PCBT	P1PPDD	P1PPDE	P1PPDT	RSP	RSTLOI	SS04UR
SAMPLE		MIREX	OXCHLANE	OP-DDT	PCB	PP-DDD	PP-DDE	PP-DDT	RESIDUE	RESIDUE	SULPHATE
DATE	HOUR	NG/G DRY	NG/G DRY	NG/G DRY	TOTAL	NG/G DRY	NG/G DRY	NG/G DRY	PARTIC.	TOTAL	UNF. REAC
YYMMDD	LMT	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	MG/L	IGNITION	MG/L
										%	AS SO4
		MAXIMUM	5	2	5	20	5	1	65.200	0.5	66.30
		ARITH MEAN	5<A	2<A	5<A	20<A	5<A	1<A	10.04	0.5	66.30
		GEOM MEAN							6.88		
		MINIMUM	5	2	5	20	5	1	1.330	0.5	66.30
		STD DEV (GEOM *)							11.21		
		# SAMP IN STATISTICS	1	1	1	1	1	1	62	1	1
		% SAMP (EXCLUDED)									

*=INTERIM TEST-NAME:		TURB	X2HCB	ZNUT
SAMPLE		TURB'ITY	HCB	ZINC
DATE	HOUR	FTU	NG/G DRY	UNF. TOT.
YYMMDD	LMT	NUMBER	NUMBER	MG/L
				AS ZN
830826	1545	14679	0.96	0.005
830921	1030	83264	1<M	
		MAXIMUM	0.96	1
		ARITH MEAN	0.96	1<A
		GEOM MEAN		
		MINIMUM	0.96	1
		STD DEV (GEOM *)		
		# SAMP IN STATISTICS	1	1
		% SAMP (EXCLUDED)		





## 1983 WATER QUALITY DATA REGION 5

241

B.O.W./ SITE: JUNCTION CREEK  
 SAMPLE POINT: AT ORELL STREET CARSON  
 STATION TYPE: RIVER

STATION ID: 14-0028-042-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 33 15.24 LONG: 080 51 58.17 U T M: 17 0510260.0 5155420.0 4 REGION: 05 DISTANCE: 150.148

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALK	COND25	CUUT	DO	FEUT	FWSTRC	NIUT	NNOTFR
				ALK	CONDUCT.	COPPER	DISOLVED	IRON		NICKEL	NO2+NO3N
SAMPLE		SAMPLE	PROJECT	TOTAL	25C	UNF.TOT.	OXYGEN	UNF.TOT.		UNF.TOT.	FIL.REAC
DATE	HR	DEPTH	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	MG/L	MG/L
YYMMDD	LMT	NUMBER	CODE	AS CAC03	AT 25 C	AS CU	AS O	AS FE	COND.	AS NI	AS N
830312	0935	14509	0101	14.3	845.0	0.013	10.00	0.040<T	6 8	0.310	0.950
		MAXIMUM		14.3	845.0	0.013	10.00	0.040		0.310	0.950
		ARITH MEAN		14.3	845.0	0.013	10.00	0.040<A		0.310	0.950
		GEOM MEAN									
		MINIMUM		14.3	845.0	0.013	10.00	0.040		0.310	0.950
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS	1	1	1	1	1	1		1	1
		% SAMP (EXCLUDED)									

*=INTERIM TEST-NAME:		NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT
		K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC
SAMPLE		TOTAL	UNF.TOT.		UNF.TOT.	UNF.REAC		UNF.TOT.
DATE	HR	MG/L	MG/L		MG/L	MG/L	TURB'ITY	MG/L
YYMMDD	LMT	AS N	AS PB	PH	AS P	AS SO4	FTU	AS ZN
830312	0935	14509	0.480	0.003<	8.98	0.006	313.60	1.70
		MAXIMUM	0.480		8.98	0.006	313.60	1.70
		ARITH MEAN	0.480		8.98	0.006	313.60	1.70
		GEOM MEAN						
		MINIMUM	0.480		8.98	0.006	313.60	1.70
		STD DEV (GEOM *)						
		# SAMP IN STATISTICS	1	1	1	1	1	1
		% SAMP (EXCLUDED)						

## 1983 WATER QUALITY DATA REGION 5

242

B.O.W./ SITE: NOLIN CREEK  
 SAMPLE POINT: AT HIGHWAY NO 144  
 STATION TYPE: RIVER FLOW GAUGE FED 02CF009

STATION ID: 14-0028-043-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 29 31.96 LONG: 081 01 22.56 U T M: 17 0498240.0 5148520.0 4 REGION: 05 DISTANCE: 139.848

*INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	COND25	CUUT	DO	FEUT	FWFLOW	FWSTRC	FWTEMP
				ALK	CONDUCT.	COPPER	DISOLVED	IRON	STREAM		
SAMPLE DATE	HR	SAMPLE	PROJECT	TOTAL	25C	UNF.TOT.	OXYGEN	UNF.TOT.	FLOW		WATER
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	MG/L	M3	COND.	TEMP
			CODE	AS CAC03	AT 25 C	AS CU	AS O	AS FE	/S		DEG.C
830313	0950	14525	0101	44.2	653.0	0.510	7.00	1.225	0.560	6 8	
830424	1005	14562	0101	31.1	809.0	0.140	6.00	0.290	0.263	6 3	4.0
830528	1240	14599	0101	640.6	3270	0.098	6.00	0.895	0.433	6 8	10.0
830626	1015	14636	0101	131.6	1430.0	0.061	7.00	0.250	0.055	6 8	21.0
830731	1110	14673	0101	37.8	2020.0	0.190	6.00	1.275	0.020	6 8	20.0
830828	1025	14710	0101	353.3	2750.0	0.210	7.00	0.465	0.089	6 8	22.0
831002	1020	14747	0101	82.3	1830.0	0.036	7.00	0.105	0.097	6 8	15.0
831030	0910	14784	0101	27.9	941.0	0.120	6.00	0.325	0.206	6 8	5.0
831127	1100	14821	0101	70.5	1204.0	0.100	7.00	0.630	0.200	6 8	4.0
MAXIMUM		0.30		640.6	3270	0.510	7.00	1.275	0.560		22.0
ARITH MEAN		0.30		157.7	1656	0.163	6.56	0.607	0.214		12.6
GEOM MEAN				85.7	1451	0.125	6.54	0.465	0.143		10.1
MINIMUM		0.30		27.9	653.0	0.036	6.00	0.105	0.020		4.0
STD DEV (GEOM *)				207.8	898	0.142	0.53	0.432	0.181		7.9
# SAMP IN STATISTICS		9		9	9	9	9	9	9		8
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT
		NICKEL	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC
SAMPLE DATE	HR	UNF.TOT.	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.	UNF.REAC	TURB'ITY	UNF.TOT.
YYMMDD	LMT	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	FTU	MG/L
		AS NI	AS N	AS N	AS PB	PH	AS P	AS SO4		AS ZN
830313	0950	0.830	1.100	2.000	0.003<	10.61	0.006	205.95	6.80	0.026
830424	1005	0.520	0.545	2.500	0.003<	10.41	0.002<T		7.10	0.010
830528	1240	0.180	0.705	3.800	0.003<	12.09	0.011	642.00	0.50	0.006
830626	1015	0.096	0.035	5.000	0.003<	11.49	0.004<T	691.50	2.00	0.004
830731	1110	0.350	0.220	5.750	0.003<	10.45	0.006	1167.25	8.50	0.010
830828	1025	0.500	0.880	5.300	0.003<	11.20	0.004<T	844.75	6.50	0.012
831002	1020	0.069	0.420	6.200	0.003<	10.65	0.004	973.00	2.80	0.010
831030	0910	0.190	0.405	2.950	0.018	10.40	0.004	442.20	3.40	0.018
831127	1100	0.390	0.900	3.700	0.003<	11.09	0.001<T		8.80	0.012
MAXIMUM		0.830	1.100	6.200	0.018	12.09	0.011	1167.25	8.80	0.026
ARITH MEAN		0.347	0.579	4.133	0.018	10.93	0.005<A	709.52	5.16	0.012
GEOM MEAN		0.266	0.424	3.873		10.92	0.004<A	628.62	3.93	0.011
MINIMUM		0.069	0.035	2.000	0.018	10.40	0.001	205.95	0.50	0.004
STD DEV (GEOM *)		0.245	0.347	1.496		0.58	0.003<A	323.30	3.02	0.007
# SAMP IN STATISTICS		9	9	9	1	9	9	7	9	9
% SAMP (EXCLUDED)					88					

## 1983 WATER QUALITY DATA REGION 5

243

B.O.W./ SITE: SPANISH RIVER  
 SAMPLE POINT: UPSTR.FROM E B EDDY PAPER MILL ESPANOLA  
 STATION TYPE: RIVER FLOW GAUGE FED 02CE001

STATION ID: 14-0028-045-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 16 16.33 LONG: 081 46 09.31 U T M: 17 0440725.0 5124250.0 4 REGION: 05 DISTANCE: 50.532

*INTERIM TEST-NAME:		FMSADP	FGPROJ	BOD5 BOD 5 DAY TOT.DEM. MG/L AS O	CLIDUR CHLORIDE UNF.REAC MG/L AS CL-	COD CHEM. OX DEMAND MG/L AS O	COND25 CONDUCT. 25C UMHO/CM AT 25 C	DO DISOLVED OXYGEN MG/L AS O	FWFLOW STREAM FLOW M3 /S	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C
SAMPLE DATE YYMMDD	HOURLMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE							
830621		11658	0.30	0101	1.19	3.48	16.3	80.8	9.20	190.000	8
830629	1815	11665		0101	0.87	3.36	8.9	82.8	8.80	95.400	21.5
830706	1547	11675		0101	0.66	4.00	11.9	92.0	8.60	62.000	23.0
830711	1740	11679	0.30	0101	1.48	3.99	13.9	91.8	8.90	65.700	8
830720		11685	0.30	0101	0.49	4.88	18.6	108.9	8.90	50.600	25.5
830725	1730	11689	0.30	0101	0.70	6.23	9.9	111.0	8.90	45.000	25.5
830803	1620	11696	0.30	0101	0.60	3.66	5.9<T	92.8	8.50	45.200	23.0
830815	1500	11707	0.30	0101	0.25<T	2.59	11.5	73.6	8.40	44.400	22.0
830822	1040	11714	0.30	0101	0.43<T	3.55	14.5	87.3	8.40	40.200	22.0
830830	1030	11721	0.30	0101	0.57	4.47	11.6	101.5	8.50	50.300	23.5
		MAXIMUM	0.30		1.48	6.23	18.6	111.0	9.20	190.000	25.5
		ARITH MEAN	0.30		0.72<A	4.02	12.3<A	92.2	8.71	68.880	22.9
		GEOM MEAN			0.65<A	3.92	11.8<A	91.5	8.71	60.729	22.8
		MINIMUM	0.30		0.25	2.59	5.9	73.6	8.40	40.200	19.5
		STD DEV (GEOM *)			0.37<A	1.00	3.7<A	12.1	0.27	45.538	1.8
		# SAMP IN STATISTICS	8		10	10	10	10	10	10	10
		% SAMP (EXCLUDED)									

*INTERIM TEST-NAME:		KKUR	NAUR	NNOTFR	NNTKUR K'DAHL N TOTAL	PH	PHNOL	PPUT	RSP	SS04UR	TURB
SAMPLE DATE YYMMDD	HOURLMT	SAMPLE NUMBER	POTASSIM UNF.REAC MG/L AS K	SODIUM UNF.REAC MG/L AS NA	NO2+NO3N FIL.REAC MG/L AS N		PHENOLS UNF.REAC UG/L PHENOL	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	SULPHATE UNF.REAC MG/L AS SO4	TURB'ITY FTU
830621		11658	0.72	3.15	0.090	0.290	7.05		0.014	0.760<T	1.60
830629	1815	11665	0.74	3.10	0.090	0.300	6.99	0.6<T	0.009	1.590	1.50
830706	1547	11675	0.84	3.75	0.100	0.320	7.08	64.0	0.012	1.880	1.10
830711	1740	11679	0.78	3.80	0.075	0.340	7.30	2.0	0.012	5.420	1.20
830720		11685			0.060	0.260	7.35	0.2<W	0.014	0.160<T	1.00
830725	1730	11689			0.050	0.290	7.27	0.8	0.010	0.870<T	1.10
830803	1620	11696			0.035	0.300	7.10	0.2<W	0.014	4.290	1.49
830815	1500	11707			0.050	0.250	7.11	0.2<T	0.010	0.740<T	0.65
830822	1040	11714			0.050	0.260	7.25	0.4<T	0.006	1.690	1.15
830830	1030	11721			0.035	0.260	7.50	0.4<T	0.010	0.770<T	0.89

(CONT'D)

## 244

STORET CODE: 02  
002  
7950

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SPANISH RIVER

[illegible]

## 1983 WATER QUALITY DATA REGION 5

245

B.O.W./ SITE: JUNCTION CREEK  
 SAMPLE POINT: UPSTREAM OF SIMON LAKE AT RESERVE ROAD  
 STATION TYPE: RIVER

STATION ID: 14-0028-046-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 24 09.26 LONG: 081 10 46.28

U T M: 17 0486200.0 5138575.0 4

REGION: 05

DISTANCE: 112.973

*=INTERIM TEST-NAME:			FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP
SAMPLE			SAMPLE	PROJECT	ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON		
DATE	HOUR		DEPTH	SUB-PROJ	TOTAL	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	STREAM	WATER
YYMMDD	LMT	SAMPLE	NUMBER	CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	COND.	TEMP
			M		AS CAC03	AS CL-	AT 25 C	AS CU	AS O	AS FE		DEG.C
830311	1730	14500	0.30	0101	12.8		773.0	0.037	9.00	0.700	3 6 8	
830423	0915	14548	0.30	0101	16.2		494.0	0.067	8.00	0.625	6 8	3.0
830527	1830	14584	0.30	0101	15.5		757.0	0.053	8.00	0.835	6 8 3	10.0
830624	1800	14607	0.30	0101	32.8		753.0	0.018	8.00	0.420	6 8	22.0
830729	1220	14641	0.30	0101	28.4		853.0	0.024	7.00	0.365	6 8	21.0
830826	0635	14678	0.30	0101	36.2		1070.0	0.024	7.00	0.420	6 8	21.0
830930	1745	14718	0.30	0101	34.0	73.40	1142.0	0.024	8.00	0.410	6 8	16.0
831028	0620	14752	0.30	0101	37.4		1005.0	0.024	7.00	0.280	6 8	4.0
831125	1700	14792	0.30	0101	28.0		1004.0	0.027	8.00	0.460	6 8 9	3.0
MAXIMUM			0.30		37.4	73.40	1142.0	0.067	9.00	0.835		22.0
ARITH MEAN			0.30		26.8	73.40	872.3	0.033	7.78	0.502		12.5
GEOM MEAN					25.0		848.9	0.030	7.75	0.475		9.3
MINIMUM			0.30		12.8	73.40	494.0	0.018	7.00	0.280		3.0
STD DEV (GEOM *)					9.5		202.4	0.016	0.67	0.179		8.5
# SAMP IN STATISTICS			9		9	1	9	9	9	9		8
% SAMP (EXCLUDED)												
*=INTERIM TEST-NAME:			NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP	SS04UR
SAMPLE			NICKEL	NH3-N		TOTAL	LEAD		P04	PHOSPHOR		SULPHATE
DATE	HOUR		UNF.TOT.	FIL.REAC	NO2+NO3N	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	RESIDUE	UNF.REAC
YYMMDD	LMT	SAMPLE	MG/L	MG/L	MG/L	MG/L	MG/L	PH	MG/L	MG/L	PARTIC.	MG/L
		NUMBER	AS NI	AS N	AS N	AS N	AS PB		AS P	AS P	MG/L	AS SO4
830311	1730	14500	0.590		4.800	0.560	0.003	6.57		0.093		237.35
830423	0915	14548	0.850		2.210	0.560	0.003<	6.72		0.077		136.95
830527	1830	14584	0.650		3.220	0.910	0.008	7.39		0.133		134.75
830624	1800	14607	0.180		1.800	0.860	0.003<	7.19		0.109		266.90
830729	1220	14641	0.130		0.880	0.860	0.003<	7.26		0.162		323.40
830826	0635	14678	0.150		0.185	1.120	0.003	9.52		0.164		414.00
830930	1745	14718	0.500	0.066	1.690	1.030	0.003<	7.51	0.0520	0.161	15.400	513.00
831028	0620	14752	0.790		1.810	2.050	0.003<	8.38		0.095		475.00
831125	1700	14792	0.990		1.260	2.200	0.003	7.33		0.123		436.50
MAXIMUM			0.990	0.066	4.800	2.200	0.008	9.52	0.0520	0.164	15.400	513.00
ARITH MEAN			0.537	0.066	1.984	1.128	0.004	7.54	0.0520	0.124	15.400	326.43
GEOM MEAN			0.424		1.501	1.010		7.50		0.120		294.47
MINIMUM			0.130	0.066	0.185	0.560	0.003	6.57	0.0520	0.077	15.400	134.75
STD DEV (GEOM *)			0.322		1.353	0.596		0.90		0.033		141.77
# SAMP IN STATISTICS			9	1	9	9	4	9	1	9	1	9
% SAMP (EXCLUDED)							55					

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

246

B.O.W./ SITE: JUNCTION CREEK  
 SAMPLE POINT: UPSTREAM OF SIMON LAKE AT RESERVE ROAD  
 STATION TYPE: RIVER

STATION ID: 14-0028-046-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 24 09.26 LONG: 081 10 46.28 U T M: 17 0486200.0 5138575.0 4 REGION: 05 DISTANCE: 112.973

**INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
SAMPLE			UNF. TOT.
DATE	HOUR	SAMPLE	TURB*ITY
YYMMDD	LMT	NUMBER	FTU
			MG/L
			AS ZN
830311	1730	14500	7.90
830423	0915	14548	6.20
830527	1830	14584	8.50
830624	1800	14607	6.00
830729	1220	14641	7.20
830826	0635	14678	8.40
830930	1745	14718	8.30
831028	0620	14752	4.90
831125	1700	14792	4.80
MAXIMUM		8.50	0.022
ARITH MEAN		6.91	0.029
GEOM MEAN		6.76	0.018
MINIMUM		4.80	0.007
STD DEV (GEOM *)		1.48	0.007
# SAMP IN STATISTICS		9	0.008
% SAMP (EXCLUDED)		9	0.029

## 1983 WATER QUALITY DATA REGION 5

247

B.D.W./ SITE: JUNCTION CREEK  
 SAMPLE POINT: 100 FEET UPSTR.OF SUDBURY STP OUTFALL  
 STATION TYPE: RIVER

STATION ID: 14-0028-047-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 27 50.87 LONG: 081 02 06.59 U T M: 17 0497300.0 5145400.0 4 REGION: 05 DISTANCE: 129.227

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP
				ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON		
SAMPLE DATE	HR	SAMPLE	PROJECT	TOTAL	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.		WATER
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	TEMP
			CODE	AS CAC03	AS CL-	AT 25 C	AS CU	AS O	AS FE	COND.	DEG.C
830313	0825	14522	0101	9.3		723.0	0.230	8.00	1.100	6 8	
830424	1035	14563	0101	27.5		1097.0	0.210	7.00	1.100	6 8	4.0
830528	1305	14600	0101	34.9		923.0	0.210	7.00	0.900	6 8	10.0
830626	1035	14637	0101	22.3		1920.0	0.050	7.00	0.320		22.0
830731	1140	14674	0101	21.6		1740.0	0.025	7.00	0.275	6 8	21.0
830828	1100	14711	0101	46.8		1430.0	0.033	7.80	0.720	6 8	21.0
831002	1055	14748	0101	24.5		1770.0	0.059	7.00	0.500	6 8	16.0
831030	1025	14787	0101	22.4	46.30	846.0	0.870	7.00		6 8	4.0
831127	1125	14822	0101	22.7		1078.0	0.170	7.00	0.905	6 8	3.0
MAXIMUM		0.30		46.8	46.30	1920.0	0.870	8.00	1.100		22.0
ARITH MEAN		0.30		25.8	46.30	1280.8	0.206	7.20	0.727		12.6
GEOM MEAN				23.9		1212.1	0.115	7.19	0.648		9.6
MINIMUM		0.30		9.3	46.30	723.0	0.025	7.00	0.275		3.0
STD DEV (GEOM *)				10.3		445.0	0.263	0.40	0.330		8.3
# SAMP IN STATISTICS		9		9	1	9	9	9	8		8
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP	SS04UR
		NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		P04	PHOSPHOR		SULPHATE
SAMPLE DATE	HR	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	RESIDUE	UNF.REAC
YYMMDD	LMT	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	PARTIC.	MG/L
		AS NI	AS N	AS N	AS N	AS PB	PH	AS P	AS P	MG/L	AS S04
830313	0825	1.300		2.200	1.150	0.003<	7.01		0.026		258.55
830424	1035	3.800		0.730	4.850	0.003<	7.73		0.016		
830528	1305	1.700		0.815	4.000	0.003<	7.89		0.030		403.40
830626	1035	1.600		2.100	6.800	0.004	8.48		0.005		1019.00
830731	1140	0.530		1.250	4.700	0.003<	9.26		0.010		925.50
830828	1100	1.200		1.080	3.900	0.003<	7.73		0.024		676.25
831002	1055	1.900		1.640	5.000	0.003<	6.94		0.009		905.00
831030	1025	0.001<	1.330	1.520	1.800	0.017	6.91	0.0005<T	0.023	23.600	338.00
831127	1125	1.300		1.290	2.950	0.003<	7.44		0.022		
MAXIMUM		3.800	1.330	2.200	6.800	0.017	9.26	0.0005	0.030	23.600	1019.00
ARITH MEAN		1.666	1.330	1.403	3.906	0.010	7.71	0.0005<A	0.018	23.600	646.53
GEOM MEAN				1.317	3.475		7.68		0.016		573.27
MINIMUM		0.530	1.330	0.730	1.150	0.004	6.91	0.0005	0.005	23.600	258.55
STD DEV (GEOM *)				0.516	1.734		0.78		0.009		313.34
# SAMP IN STATISTICS		8	1	9	9	2	9	1	9	1	7
% SAMP (EXCLUDED)		11				77					

( C O N T D )



## 248

STATION ID: 14-0028-047-02

STORET CODE: 02  
002  
7950

LAT: 46 27 50.87 LONG: 081 02 06.59 U T M: 17 0497300.0 5145400.0 4 REGION: 05 DISTANCE: 129.227

*INTERIM		TEST-NAME:	TURB	ZNUT
SAMPLE				ZINC
DATE	HOUR	SAMPLE	TURB*ITY	UNF.TOT.
YYMMDD	LMT	NUMBER	FTU	MG/L
				AS ZN
830313	0825	14522	11.20	0.084
830424	1035	14563	12.40	0.130
830528	1305	14600	14.00	0.091
830626	1035	14637	2.50	0.068
830731	1140	14674	6.60	0.015
830828	1100	14711	15.40	0.021
831002	1055	14748	3.30	0.085
831030	1025	14787	13.60	0.380
831127	1125	14822	8.10	0.072
MAXIMUM			15.40	0.380
ARITH MEAN			9.68	0.105
GEOM MEAN			8.26	0.072
MINIMUM			2.50	0.015
STD DEV (GEOM *)			4.75	0.109
# SAMP IN STATISTICS			9	9
% SAMP (EXCLUDED)				

## 1983 WATER QUALITY DATA REGION 5

249

B.O.W./ SITE: JUNCTION CREEK  
 SAMPLE POINT: AT KELLEY LAKE ROAD  
 STATION TYPE: RIVER FLOW GAUGE FED 02CF106

STATION ID: 14-0028-048-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 27 58.97 LONG: 081 01 58.39 U T M: 17 0497475.0 5145650.0 4 REGION: 05 DISTANCE: 130.514

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP
				ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON		
SAMPLE DATE	HOUR	SAMPLE	SAMPLE	PROJECT	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.		WATER
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	TEMP
			M	CODE	AS CACO3	AT 25 C	AS CU	AS O	AS FE	COND.	DEG.C
830313	0810	14521	0.30	0101	17.2	44.80	360.0	0.300	1.200	6 8	
830424	1100	14564	0.30	0101	26.9	70.50	713.0	0.470	1.125	6 8	4.0
830528	1325	14601	0.30	0101	38.3	37.20	473.0	0.390	1.280	6 8	10.0
830626	1050	14638	0.30	0101	52.8	120.00	1239.0	0.150	0.425	6 8	22.0
830731	1225	14676	0.30	0101	90.8	141.00	1233.0	0.049	0.650	6 8	21.0
830828	1135	14713	0.30	0101	60.8	55.50	679.0	0.007	1.475	6 8	21.0
831002	1125	14750	0.30	0101	54.3	74.50	972.0	0.150	0.270	6 8 9	16.0
831030	0935	14785	0.30	0101	13.0	1610.0	0.500	7.00	1.775	6 8	5.0
831127	1150	14824	0.30	0101	27.4	43.09	491.0	0.240	1.070	6 8	2.0
MAXIMUM		0.30			90.8	141.00	1610.0	0.500	1.775		22.0
ARITH MEAN		0.30			42.4	73.32	863.3	0.251	1.030		12.6
GEOM MEAN					35.9	65.86	771.4	0.155	0.693		9.4
MINIMUM		0.30			13.0	37.20	360.0	0.007	0.270		2.0
STD DEV (GEOM *)					24.8	38.02	425.4	0.178	0.493		8.4
# SAMP IN STATISTICS		9			9	8	9	9	9		8
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP	SS04UR
		NICKEL	NH3-N	TOTAL	K'DAHL N	LEAD		P04	PHOSPHOR		SULPHATE
SAMPLE DATE	HOUR	UNF.TOT.	FIL.REAC	NO2+NO3N	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	RESIDUE	UNF.REAC
YYMMDD	LMT	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	PARTIC.	MG/L
		AS NI	AS N	AS N	AS N	AS PB	PH	AS P	AS P	MG/L	AS S04
830313	0810	1.700	0.286	0.600	0.580	0.003<	7.12	0.0015	0.024	18.900	80.60
830424	1100	6.900	0.650	0.715	0.950	0.003<	7.53	0.0005<T	0.022	23.400	
830528	1325	14601	0.410	0.545	0.840	0.003<	7.43	0.0020<T	0.040	33.700	135.80
830626	1050	14638	1.320	2.640		0.025	7.67	0.0010<T	0.017	6.980	474.50
830731	1225	14676	0.344	1.460	0.850	0.003<	8.01	0.0040	0.028	8.700	384.70
830828	1135	14713	0.002	1.440	0.930	0.003<	7.58	0.0020<T	0.046	23.700	198.00
831002	1125	14750	0.790	1.170	1.100	0.003<	7.72	0.0010<T	0.013	4.180	331.00
831030	0935	14785	0.001<	1.850	4.650	0.010	6.98		0.022		826.75
831127	1150	14824	1.800	0.420	0.785	0.003<	7.08	1.6700	2.500	21.000	
MAXIMUM		11.000	1.440	2.640	4.650	0.025	8.01	1.6700	2.500	33.700	826.75
ARITH MEAN		4.288	0.707	1.188	1.379	0.017	7.46	0.2102<A	0.301	17.570	347.34
GEOM MEAN			0.599	1.040	1.046		7.45	0.0034<A	0.041	14.433	271.33
MINIMUM		0.002	0.286	0.545	0.580	0.010	6.98	0.0005	0.013	4.180	80.60
STD DEV (GEOM *)			0.448	0.692	1.453		0.34	0.5898<A	0.825	10.109	253.60
# SAMP IN STATISTICS		8	8	9	7	2	9	8	9	8	7
% SAMP (EXCLUDED)		11				77					

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

250

B.O.W./ SITE: JUNCTION CREEK  
SAMPLE POINT: AT KELLEY LAKE ROAD  
STATION TYPE: RIVER FLOW GAUGE FED 02CF106

STATION ID: 14-0028-048-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SPANISH RIVER

STORET CODE: 02  
002  
7950

LAT: 46 27 58.97 LONG: 081 01 58.39 U T M: 17 0497475.0 5145650.0 4 REGION: 05 DISTANCE: 130.514

*=INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
SAMPLE			UNF.TOT.
DATE	HOUR	SAMPLE TURB'ITY	MG/L
YYMMDD	LMT	NUMBER FTU	AS ZN
830313	0810	14521 10.30	0.100
830424	1100	14564 12.00	0.290
830528	1325	14601 17.00	0.150
830626	1050	14638 4.50	0.420
830731	1225	14676 4.80	0.056
830828	1135	14713 23.00	0.055
831002	1125	14750 2.80	0.250
831030	0935	14785 15.30	0.190
831127	1150	14824 14.10	0.100
MAXIMUM		23.00	0.420
ARITH MEAN		11.53	0.179
GEOM MEAN		9.50	0.144
MINIMUM		2.80	0.055
STD DEV (GEOM *)		6.66	0.122
# SAMP IN STATISTICS		9	9
% SAMP (EXCLUDED)			

## 1983 WATER QUALITY DATA REGION 5

251

B.O.W./ SITE: JUNCTION CREEK  
 SAMPLE POINT: AT KING STREET SUDBURY  
 STATION TYPE: RIVER FLOW GAUGE FED.02CF005

STATION ID: 14-0028-049-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 30 13.44 LONG: 080 59 10.74 U T M: 17 0501050.0 5149800.0 4 REGION: 05 DISTANCE: 137.273

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWFLOW	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	STREAM	
DATE	HOUR	DEPTH	SUB-PROJ	TOTAL	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	FLOW	
YYMMDD	LMT	M	CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	M3	STREAM
				AS CAC03	AS CL-	AT 25 C	AS CU	AS O	AS FE	/S	COND.
830313	1130	14530	0101	17.1	37.90	299.0	0.240	7.00	0.560	2.500	3 9
830424	0810	14557	0101	24.4	49.60	534.0	0.370	6.08	0.850	1.150	3 7 9
830528	1215	14598	0101	25.3	26.10	336.0	0.200	7.00	0.360	2.870	3 7 9
830626	0800	14630	0101	37.3	87.10	1283.0	1.200	6.00		0.200	7 9
830731	1040	14672	0101	84.4	104.00	1007.0	0.140	6.00	0.375	0.188	
830828	0825	14706	0101	54.1	56.40	1170.0	0.720	6.00	3.475	0.591	7 9
831002	0815	14741	0101	32.9	56.80	919.0	0.800	5.00		0.476	9 7
831030	0705	14778	0101	21.5	35.05	782.0	0.770	6.00		0.934	7 9
831127	0910	14815	0101	31.7	36.71	387.0	0.110	7.00	0.585	1.300	7 9
		MAXIMUM	0.30	84.4	104.00	1283.0	1.200	7.00	3.475	2.870	
		ARITH MEAN	0.30	36.5	54.41	746.3	0.506	6.22	1.034	1.134	
		GEOM MEAN		32.5	49.65	656.2	0.375	6.19	0.712	0.779	
		MINIMUM	0.30	17.1	26.10	299.0	0.110	5.00	0.360	0.188	
		STD DEV (GEOM *)		21.0	25.79	372.4	0.380	0.67	1.209	0.965	
		# SAMP IN STATISTICS	9	9	9	9	9	9	6	9	
		% SAMP (EXCLUDED)									
*INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP
SAMPLE		WATER	NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		PO4	PHOSPHOR	
DATE	HOUR	TEMP	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	RESIDUE
YYMMDD	LMT	DEG.C	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	PARTIC.
			AS NI	AS N	AS N	AS N	AS PB	PH	AS P	AS P	MG/L
830313	1130	14530	1.400	0.090	0.380	0.430	0.004	7.47	0.0010<T	0.026	10.600
830424	0810	14557	7.800	1.710	1.870	0.670	0.003<	7.39	0.0010<T	0.030	15.600
830528	1215	14598	2.600	0.334	0.495	0.760	0.003<	7.13	0.0015<T	0.021	8.750
830626	0800	14630	27.000	2.920	3.780	3.100	0.051	6.68	0.0010<T	0.010	4.510
830731	1040	14672	6.600	0.440	1.160	0.790	0.005	7.61	0.0010<T	0.015	13.000
830828	0825	14706	3.200	0.018	0.090	0.390	0.003	7.43	0.0010<T	0.012	9.120
831002	0815	14741	16.0	1.080	1.750	1.390	0.003	6.72	0.0010<T	0.009	4.920
831030	0705	14778	4.0	1.360	2.020	1.820	0.020	6.49	0.0005<T	0.022	20.600
831127	0910	14815	2.0	0.184	0.605	0.510	0.003<	7.32	0.0130	0.029	3.860
		MAXIMUM	22.0	27.000	2.920	3.780	0.051	7.61	0.0130	0.030	20.600
		ARITH MEAN	12.4	8.344	0.904	1.350	0.014	7.14	0.0023<A	0.019	10.107
		GEOM MEAN	9.0	5.382	0.409	0.874	0.865	7.13	0.0013<A	0.018	8.756
		MINIMUM	2.0	1.400	0.018	0.090	0.003	6.49	0.0005	0.009	3.860
		STD DEV (GEOM *)	8.6	8.223	0.966	1.153	0.887	0.41	0.0040<A	0.008	5.579
		# SAMP IN STATISTICS	8	9	9	9	6	9	9	9	9
		% SAMP (EXCLUDED)					33				

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

252

B.O.W./ SITE: JUNCTION CREEK  
 SAMPLE POINT: AT KING STREET SUDBURY  
 STATION TYPE: RIVER FLOW GAUGE FED.02CF005

STATION ID: 14-0028-049-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 30 13.44 LONG: 080 59 10.74

U T M: 17 0501050.0 5149800.0 4

REGION: 05

DISTANCE: 137.273

*=INTERIM TEST-NAME:		SSO4UR	TURB	ZNUT
		SULPHATE		ZINC
		UNF.REAC		UNF.TOT.
SAMPLE DATE	HOUR	SAMPLE	MG/L	TURB'ITY
YYMMDD	LMT	NUMBER	AS SO4	FTU
				AS ZN
830313	1130	14530	62.28	6.50
830424	0810	14557	155.45	11.00
830528	1215	14598	90.55	4.00
830626	0800	14630	571.25	1.40
830731	1040	14672	308.50	4.50
830828	0825	14706	265.45	9.20
831002	0815	14741	369.00	3.00
831030	0705	14778	347.80	14.70
831127	0910	14815	110.65	4.20
MAXIMUM		571.25	14.70	1.200
ARITH MEAN		253.44	6.50	0.424
GEOM MEAN		202.88	5.26	0.313
MINIMUM		62.28	1.40	0.095
STD DEV (GEOM *)		165.64	4.31	0.358
# SAMP IN STATISTICS		9	9	9
% SAMP (EXCLUDED)				

## 1983 WATER QUALITY DATA REGION 5

253

B.O.W./ SITE: VERMILLION RIVER  
 SAMPLE POINT: ON ROAD TO VAL THERESE  
 STATION TYPE: RIVER

STATION ID: 14-0028-050-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 41 08.69 LONG: 081 00 32.95 U T M: 17 0499300.0 5170025.0 4 REGION: 05 DISTANCE: 204.542

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC	FWTEHP
SAMPLE		SAMPLE	PROJECT	ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	STREAM	WATER
DATE	HR	DEPT	SUB-PROJ	TOTAL	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	COND.	TEMP
YYMMDD	LMT	NUMBER	CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L		DEG.C
				AS CAC03	AS CL-	AT 25 C	AS CU	AS O	AS FE		
830312	1105	14512	0101	20.6	7.03	101.0	0.003	12.00	0.300	3 6 8	
830423	1300	14556	0101	9.3	1.44	51.4	0.002	12.00	0.215	3 6 8	3.0
830528	1000	14592	0101	12.0	1.43	56.6	0.003	12.00	0.175	6 8	9.0
830625	1030	14615	0101	18.6	2.46	74.8	0.004	12.00	0.205	6 8	20.0
830730	1020	14652	0101	29.6	5.10	105.8	0.002	12.00	0.165	6 8	21.0
830811	1035	14726	0101	31.5	6.35	117.3	0.004	13.00	0.150	6 8	15.0
830827	1000	14689	0101	31.7	6.83	118.9	0.002	12.00	0.115	6 8	20.0
831028	1405	14770	0101	19.6	3.42	85.8	0.005	12.00	0.235	6 8	4.0
831126	1050	14800	0101	20.1	3.66	82.9	0.004	13.00	0.235	6 8	2.0
MAXIMUM		0.30		31.7	7.03	118.9	0.005	13.00	0.300		21.0
ARITH MEAN		0.30		21.4	4.19	88.3	0.003	12.22	0.199		11.7
GEOM MEAN				19.9	3.59	85.0	0.003	12.22	0.193		8.5
MINIMUM		0.30		9.3	1.43	51.4	0.002	12.00	0.115		2.0
STD DEV (GEOM *)				8.1	2.22	24.6	0.001	0.44	0.055		8.2
# SAMP IN STATISTICS		9		9	9	9	9	9	9		8
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP	SS04UR	
SAMPLE		NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		P04	PHOSPHOR		SULPHATE	
DATE	HR	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	RESIDUE	UNF.REAC	
YYMMDD	LMT	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	PARTIC.	MG/L	
		AS NI	AS N	AS N	AS N	AS PB	PH	AS P	AS P	MG/L	AS S04	
830312	1105	14512	0.006	0.004	0.410	0.200	0.003<	7.50	0.0040	0.021	1.920	13.81
830423	1300	14556	0.005	0.046	0.115	0.250	0.003<	7.10	0.0010<T	0.017	3.010	10.34
830528	1000	14592	0.004	0.032	0.050	0.210	0.003<	6.96	0.0010<T	0.013	2.590	11.04
830625	1030	14615	0.004	0.018	0.095	0.240	0.003<	7.31	0.0025<T	0.010	2.150	12.14
830730	1020	14652	0.002	0.002<T	0.140	0.170	0.003<	7.65	0.0040	0.010	1.260	12.35
830811	1035	14726	0.005	0.048	0.245	0.290	0.003<	7.39	0.0160	0.023	1.240	15.39
830827	1000	14689	0.002	0.004<T	0.280	0.210	0.003<	7.30	0.0170	0.027	1.200	14.31
831028	1405	14770	0.004	0.136	0.160	0.420	0.003	7.36	0.0090	0.027	1.080	14.88
831126	1050	14800	0.006	0.088	0.115	0.250	0.003<	7.32	0.0010<T	0.012	1.890	16.15
MAXIMUM		0.006	0.136	0.410	0.420	0.003	7.65	0.0170	0.027	3.010	16.15	
ARITH MEAN		0.004	0.042<A	0.179	0.249	0.003	7.32	0.0062<A	0.018	1.816	13.38	
GEOM MEAN		0.004	0.020<A	0.150	0.241		7.32	0.0036<A	0.017	1.707	13.24	
MINIMUM		0.002	0.002	0.050	0.170	0.003	6.96	0.0010	0.010	1.080	10.34	
STD DEV (GEOM *)		0.001	0.045<A	0.113	0.073		0.20	0.0064<A	0.007	0.681	2.01	
# SAMP IN STATISTICS		9	9	9	9	1	9	9	9	9	9	
% SAMP (EXCLUDED)						88						

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

254

B.O.W./ SITE: VERMILLION RIVER  
 SAMPLE POINT: ON ROAD TO VAL THERESE  
 STATION TYPE: RIVER

STATION ID: 14-0028-050-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 41 08.69 LONG: 081 00 32.95

U T M: 17 0499300.0 5170025.0 4

REGION: 05

DISTANCE: 204.542

*INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
SAMPLE			UNF. TOT.
DATE	HOUR	SAMPLE	TURB'ITY
YYMMDD	LMT	NUMBER	FTU
			MG/L
			AS ZN
830312	1105	14512	1.50
830423	1300	14556	1.02
830528	1000	14592	0.50
830625	1030	14615	1.00
830730	1020	14652	1.07
830811	1035	14726	1.10
830827	1000	14689	0.75
831028	1405	14770	1.60
831126	1050	14800	1.60
MAXIMUM		1.60	0.016
ARITH MEAN		1.13	0.008
GEOM MEAN		1.06	0.007
MINIMUM		0.50	0.002
STD DEV (GEOM *)		0.38	0.005
# SAMP IN STATISTICS		9	9
% SAMP (EXCLUDED)			

## 1983 WATER QUALITY DATA REGION 5

255

B.O.W./ SITE: SPANISH RIVER

SAMPLE POINT: UPSTR.FROM CONFLUENCE WITH AUX SABLES R.

STATION TYPE: RIVER

STATION ID: 14-0028-055-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SPANISH RIVERSTORET CODE: 02  
002  
7950

LAT: 46 12 37.94 LONG: 082 02 32.13

U T M: 17 0419600.0 5117750.0 4

REGION: 05

DISTANCE: 32.508

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5	CLIDUR	COD	COND25	DO	FWSTRC	FWTEMP	KKUR
				5 DAY							
SAMPLE		SAMPLE	SAMPLE	TOT.DEM.	CHLORIDE	CHEM. OX	CONDUCT.	DISOLVED			POTASSIM
DATE HOUR		DEPTH	PROJECT	UNF.REAC	UNF.REAC	DEMAND	25C	OXYGEN		WATER	UNF.REAC
YYMMDD LMT		M	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	STREAM	TEMP	MG/L
			CODE	AS O	AS CL-	AS O	AT 25 C	AS O	COND.	DEG.C	AS K
830621		11656	0.30	0101	1.88	3.98	13.3	68.9	9.30	18.5	0.54
830629	1350	11663		0101	0.76	2.17	14.9	65.9			0.58
830706	1325	11673		0101	9.70	6.72	46.0	118.0	4.30	21.5	1.22
830711	1328	11677	0.30	0101	1.84	7.19	3.9	95.5	6.10	22.0	0.70
830720		11683	0.30	0101	1.56	12.60	12.6	115.9	4.60	24.8	
830725	1400	11687	0.30	0101	3.32	8.99	20.8	106.0	4.00	24.0	
830803	1250	11698	0.30	0101	20.00	13.60	25.0	129.0	2.90	24.0	
830808	1330	11701	0.30	0101	1.60	9.72	19.6	107.9	4.10	24.0	
830815	1300	11709	0.30	0101	0.64	5.08	17.8	89.0	5.00	22.0	
830822	1220	11716	0.30	0101	1.42	6.43	20.6	89.3	6.00	22.0	
830830	1255	11723	0.30	0101	1.18	10.40	25.0	113.8	6.60	23.5	
		MAXIMUM	0.30		20.00	13.60	46.0	129.0	9.30	24.8	1.22
		ARITH MEAN	0.30		3.99	7.90	20.0	99.9	5.29	22.6	0.76
		GEOM MEAN			2.15	7.05	17.3	97.9	5.04	22.6	0.72
		MINIMUM	0.30		0.64	2.17	3.9	65.9	2.90	18.5	0.54
		STD DEV (GEOM *)			5.88	3.54	10.6	20.2	1.80	1.8	0.31
		# SAMP IN STATISTICS	9		11	11	11	11	10	10	4
		% SAMP (EXCLUDED)									
*=INTERIM TEST-NAME:		NAUR	NNOTFR	NNTKUR	PH	PHNOL	PPUT	RSP	SS04UR	TURB	
				K'DAHL N							
SAMPLE		SODIUM	NO2+NO3N	TOTAL		PHENOLS	PHOSPHOR		SULPHATE		
DATE HOUR		UNF.REAC	FIL.REAC	UNF.REAC		UNF-REAC	UNF.TOT.	RESIDUE	UNF.REAC	TURB'ITY	
YYMMDD LMT		MG/L	MG/L	MG/L	PH	UG/L	MG/L	PARTIC.	MG/L	FTU	
		AS NA	AS N	AS N		PHENOL	AS P	MG/L	AS S04		
830621		11656	3.25	0.060	0.340	6.76		0.010	1.270	14.31	2.20
830629	1350	11663	2.45	0.075	0.290	6.95		0.011	2.100	13.45	1.20
830706	1325	11673	14.00	0.010<T	0.400	7.09	2.2	0.025	4.840	17.37	5.50
830711	1328	11677	6.00	0.050	0.360	6.79	9.4	0.015	3.810	17.09	2.50
830720		11683		0.020	0.370	6.78	8.6	0.025	6.320	17.29	2.40
830725	1400	11687		0.010<T	0.320	7.02	6.4	0.159	3.090	16.94	1.70
830803	1250	11698		0.020	0.400	6.39	6.0	0.018	4.030	21.67	3.50
830808	1330	11701		0.025	0.310	7.00	3.8	0.015	1.830	16.92	1.95
830815	1300	11709		0.045	0.320	7.10	0.6<T	0.014	2.820	16.57	2.50
830822	1220	11716		0.045	0.310	7.10	0.6<T	0.012	1.520	14.33	2.50
830830	1255	11723		0.045	0.400	7.11	0.8	0.025	3.540	17.13	1.95

( CONTD )



## 256

STATION ID: 14-0028-055-02

**MAJOR BASIN: GREAT LAKES**

**STORET CODE: 02**

MINOR BASIN: LAKE HURON

002

TERM STREAM: SPANISH RIVER

7950

U T M: 17 0419600.0 5117750.0 4

REGION: 05

**DISTANCE: 32.508**

*INTERIM		TEST-NAME:	MAUR	NNOTFR	NNTKUR
			SODIUM	NO2+NO3N	K'DAHL N
SAMPLE			UNF.REAC	FIL.REAC	UNF.REAC
DATE	HOUR	SAMPLE	MG/L	MG/L	MG/L
YYMMDD	LMT	NUMBER	AS NA	AS N	AS N
TOTAL					

PH	PHNOL	PPUT	RSP	SSO4UR
	PHENOLS	PHOSPHOR		SULPHATE
	UNF-REAC	UNF. TOT.	RESIDUE	UNF. REAC
	UG/L	MG/L	PARTIC.	MG/L
PH	PHENOL	AS P	MG/L	AS S04

**TURB**

**TURB'ITY**  
**FTU**

[illegible]

## 1983 WATER QUALITY DATA REGION 5

257

B.O.W./ SITE: SPANISH RIVER  
 SAMPLE POINT: DNSTR.FROM ESPANOLA SOUTH OF WALFORD  
 STATION TYPE: RIVER

STATION ID: 14-0028-056-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 10 52.67 LONG: 082 13 23.15 U T M: 17 0405600.0 5114700.0 4 REGION: 05 DISTANCE: 14.484

*INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5 BOD 5 DAY TOT.DEM. MG/L AS O	CLIDUR CHLORIDE UNF.REAC MG/L AS CL-	COD CHEM. OX DEMAND MG/L AS O	COND25 CONDUCT. 25C UMHO/CM AT 25 C	DO DISOLVED OXYGEN MG/L AS O	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C	KKUR POTASSIM UNF.REAC MG/L AS K
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE							
830621		11657	0.30	0101	1.90	2.91	16.3	63.3	9.00	19.3	0.54
830629	1430	11664	0.30	0101	0.73	2.04	18.0	63.2	9.10	19.9	0.56
830706	1410	11674		0101	1.20	2.47	18.0	76.8	7.20	21.5	0.76
830711	1300	11676	0.30	0101	1.84	9.40	22.0	99.9	5.10	22.5	0.66
830720		11684	0.30	0101	1.08	8.17	16.6	103.2	5.40	26.2	
830725	1536	11688	0.30	0101	1.72	6.27	15.8	90.5	5.00	24.5	
830803	1415	11699	0.30	0101	4.08	11.40	18.0	115.0	3.20	24.0	
830808	1220	11700	0.30	0101	0.71	8.63	17.6	104.5	4.80	24.0	
830815	1340	11710	0.30	0101	0.36<T	5.38	15.7	89.0	5.80	22.5	
830822	1256	11717	0.30	0101	1.10	5.84	13.5	89.2	6.40	22.0	
830830	1320	11724	0.30	0101	0.75	8.17	23.0	100.5	5.90	23.5	
		MAXIMUM	0.30		4.08	11.40	23.0	115.0	9.10	26.2	0.76
		ARITH MEAN	0.30		1.41<A	6.43	17.7	90.5	6.08	22.7	0.63
		GEOM MEAN			1.16<A	5.62	17.5	88.9	5.85	22.6	0.62
		MINIMUM	0.30		0.36	2.04	13.5	63.2	3.20	19.3	0.54
		STD DEV (GEOM *)			1.02<A	3.05	2.7	16.8	1.78	2.0	0.10
		# SAMP IN STATISTICS	10		11	11	11	11	11	11	4
		% SAMP (EXCLUDED)									

*INTERIM TEST-NAME:		NAUR	NNOTFR	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PH	PHNOL PHENOLS UNF-REAC UG/L PHENOL	PPUT PHOSPHOR UNF.TOT. MG/L AS P	RSP RESIDUE PARTIC. MG/L	SS04UR SULPHATE UNF.REAC MG/L AS S04	TURB TURB'ITY FTU
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SODIUM UNF.REAC MG/L AS NA	NO2+NO3N FIL.REAC MG/L AS N						
830621		11657	2.90	0.060	0.340	6.86	0.020	1.930	13.10	1.70
830629	1430	11664	2.10	0.070	0.320	6.93	1.4	0.009	2.040	1.70
830706	1410	11674	4.25	0.060	0.360	7.14	0.014	3.290	14.91	3.00
830711	1300	11676	7.05	0.055	0.420	6.61	2.4	0.014	2.240	1.80
830720		11684		0.025	0.280	7.00	0.8	0.015	1.360	1.30
830725	1536	11688		0.030	0.310	6.56	1.4	0.014	1.760	2.00
830803	1415	11699		0.015	0.410	6.60	1.6	0.013	2.290	6.00
830808	1220	11700		0.005<W	0.320	7.15	2.8	0.015	1.500	2.20
830815	1340	11710		0.035	0.330	7.18	0.2<W	0.042	2.220	3.30
830822	1256	11717		0.045	0.320	6.76	0.6<T	0.015	14.500	2.00
830830	1320	11724		0.050	0.380	7.50	0.4<T	0.018	3.030	15.42

(CONT'D)

## 258

STORET CODE: 02  
002  
7950

[illegible]

## 1983 WATER QUALITY DATA REGION 5

259

B.O.W./ SITE: SPANISH RIVER  
 SAMPLE POINT: 3 MILES DNSTR OF E.B.EDDY PLANT ESPANOLA  
 STATION TYPE: RIVER

STATION ID: 14-0028-057-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 15 32.55 LONG: 099 49 43.56 U T M: 14 0436125.0 5122945.0 4 REGION: 05 DISTANCE: 45.704

*INTERIM TEST-NAME:		FWSADP	FWDPTS	FGPROJ	BOD5 BOD 5 DAY TOT.DEN. MG/L AS O	CLIDUR CHLORIDE UNF.REAC MG/L AS CL-	COD CHEM. OX DEMAND MG/L AS O	COND25 CONDUCT. 25C UMHO/CM AT 25 C	DO DISOLVED OXYGEN MG/L AS O	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	WATER DEPTH M	PROJECT SUB-PROJ CODE							
830621	1330	11655	0.30		0101	2.18	3.99	19.4	69.1	9.80	8	18.5
830629	1245	11662			0101	2.12	2.65	18.0	72.1	9.50		19.5
830706	1220	11672			0101	11.70	9.56	66.2	127.4	7.30		22.0
830711	1405	11678	0.30		0101	1.50	7.22	29.1	97.6	7.70	8	22.5
830720		11682	0.30		0101	2.25	7.50	23.6	99.6	7.70		25.0
830725	1300	11686	0.30	2.40	0101	3.00	7.89	24.8	103.5			22.0
830803	1156	11697	0.30		0101	25.40	12.70	34.1	110.8	6.70		23.0
830808	1455	11702	0.30		0101	1.40	6.84	20.6	85.9	6.90		24.0
830815	1135	11708	0.30		0101	1.24	6.06	21.9	86.2	6.90		22.0
830822	1139	11715	0.30		0101	1.12	8.66	21.6	96.9	7.60		22.0
830830	1215	11722	0.30		0101	1.16	9.24	22.0	110.3	7.60		23.0
MAXIMUM			0.30	2.40		25.40	12.70	66.2	127.4	9.80		25.0
ARITH MEAN			0.30	2.40		4.82	7.48	27.4	96.3	7.77		22.1
GEOM MEAN						2.56	6.95	25.4	94.9	7.71		22.1
MINIMUM			0.30	2.40		1.12	2.65	18.0	69.1	6.70		18.5
STD DEV (GEOM *)						7.47	2.72	13.7	17.2	1.06		1.8
# SAMP IN STATISTICS			9	1		11	11	11	11	10		11
% SAMP (EXCLUDED)												

*INTERIM TEST-NAME:		KKUR	NAUR	NNOTFR	NNTKUR K'DAHL N TOTAL	PH	PHNOL	PPUT	RSP	SSO4UR	TURB	
SAMPLE DATE YYMMDD	HOUR LMT	POTASSIM UNF.REAC MG/L AS K	SODIUM UNF.REAC MG/L AS NA	NO2+NO3N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	PHENOLS UNF-REAC UG/L PHENOL	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	SULPHATE UNF.REAC MG/L AS SO4	TURB*ITY FTU	
830621	1330	11655	0.54	3.45	0.060	0.340	6.69		0.017	-0.392<W	13.94	1.10
830629	1245	11662	0.62	2.60	0.075	0.370	7.00	1.6	0.016	4.310	15.20	4.00
830706	1220	11672	1.30	15.80	0.010<T	0.475	7.10	70.0	0.022	5.320	19.05	5.00
830711	1405	11678	0.72	7.10	0.050	0.360	6.85	8.6	0.018	3.170	17.18	2.20
830720		11682			0.030	0.420	6.54	15.0	0.030	2.760	17.43	2.00
830725	1300	11686			0.020	0.370	6.39	40.0	0.154	4.090	18.87	1.50
830803	1156	11697			0.055	0.370	6.30	26.0	0.014	2.540	16.45	1.59
830808	1455	11702			0.040	0.300	6.72	22.6	0.014	2.330	13.41	2.20
830815	1135	11708			0.050	0.380	6.90	9.0	0.020	1.930	15.25	1.33
830822	1139	11715			0.045	0.290	7.21	12.0	0.014	0.350<T	14.41	1.98
830830	1215	11722			0.045	0.330	7.22	6.8	0.017	2.640	18.07	1.37

( C O N T D )

## 260

STATION ID: 14-0028-057-02

STORET CODE: 02  
002  
7950

LAT: 46 15 32.55 LONG: 099 49 43.56 U T M: 14 0436125.0 5122945.0 4 REGION: 05 DISTANCE: 45.704

[illegible]



## 1983 WATER QUALITY DATA REGION 5

262

B.O.W./ SITE: WHITSON RIVER  
 SAMPLE POINT: AT VERMILION RIVER  
 STATION TYPE: RIVER

STATION ID: 14-0026-059-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 31 42.89 LONG: 081 17 03.29 U T M: 17 0478200.0 5152600.0 4 REGION: 05 DISTANCE: 128.000

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	
SAMPLE DATE	YMMDD LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	DISOLVED OXYGEN MG/L AS O	IRON UNF.TOT. MG/L AS FE	STREAM COND.	WATER TEMP DEG.C
830422	2035	14544	0.30	0101	50.7	14.10	191.0	0.013	9.00	0.475	6 8 3	4.0
830527	0640	14568	0.30	0101	58.4	12.20	192.0	0.015	9.00	0.815	3 6 8	9.0
830625	1125	14617	0.30	0101	104.2	17.70	312.0	0.024	9.00	0.840	6 8	21.0
830730	1125	14654	0.30	0101	121.3	25.70	369.0	0.010	8.00	0.225	6 8	22.0
830827	1105	14691	0.30	0101	120.1	26.10	369.0	0.007	10.00	0.090	6 8	21.0
831001	1135	14728	0.30	0101	87.4	29.21	327.0	0.032	9.00	0.725	6 8	15.0
831028	1310	14768	0.30	0101	73.1	23.01	294.0	0.034	8.00	0.735	6 8	4.0
831126	1140	14802	0.30	0101	62.5	23.30	275.0	0.020	10.00	0.495	6 8	2.0
MAXIMUM		0.30			121.3	29.21	369.0	0.034	10.00	0.840		22.0
ARITH MEAN		0.30			84.7	21.41	291.1	0.019	9.00	0.550		12.2
GEOM MEAN					80.7	20.56	283.0	0.017	8.97	0.452		9.0
MINIMUM		0.30			50.7	12.20	191.0	0.007	8.00	0.090		2.0
STD DEV (GEOM *)					27.9	6.09	69.7	0.010	0.76	0.279		8.5
# SAMP IN STATISTICS		8			8	8	8	8	8	8		8
% SAMP (EXCLUDED)												

*INTERIM TEST-NAME:		NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP	SS04UR	
SAMPLE DATE	YMMDD LMT	NICKEL UNF.TOT. MG/L AS NI	NH3-N TOTAL FIL.REAC MG/L AS N	NO2+NO3N FIL.REAC MG/L AS N	K'DAHL N TOTAL UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PH	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	SULPHATE UNF.REAC MG/L AS SO4	
830422	2035	14544	0.064	0.006	0.275	0.790	0.003<	7.78	0.0120	0.045	8.880	20.90
830527	0640	14568	0.044	0.018	0.180	0.660	0.003	7.54	0.0035	0.037	19.700	17.59
830625	1125	14617	0.044	0.004<T	0.300	0.500	0.004	7.96	0.0090	0.039	6.440	31.17
830730	1125	14654	0.009	0.004<T	0.170	0.300	0.003<	8.21	0.0095	0.021	3.110	39.64
830827	1105	14691	0.012	0.016	0.125	0.300	0.003<	8.66	0.0005<T	0.019	1.530	36.80
831001	1135	14728	0.021	0.020	0.440	0.450	0.006	7.86	0.0100	0.043	8.910	35.35
831028	1310	14768	0.046	0.016	0.385	0.470	0.004	7.54	0.0115	0.035	2.060	44.09
831126	1140	14802	0.042	0.020	0.460	0.430	0.003<	7.76	0.0250	0.048	2.870	37.37
MAXIMUM		0.064	0.020	0.460	0.790	0.006	8.66	0.0250	0.048	19.700	44.09	
ARITH MEAN		0.035	0.013<A	0.292	0.487	0.004	7.91	0.0101<A	0.036	6.687	32.86	
GEOM MEAN		0.029	0.011<A	0.265	0.464		7.91	0.0069<A	0.034	4.801	31.52	
MINIMUM		0.009	0.004	0.125	0.300	0.003	7.54	0.0005	0.019	1.530	17.59	
STD DEV (GEOM *)		0.019	0.007<A	0.128	0.168		0.37	0.0072<A	0.011	6.030	9.21	
# SAMP IN STATISTICS		8	8	8	8	4	8	8	8	8	8	
% SAMP (EXCLUDED)						50						

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

263

B.O.W./ SITE: WHITSON RIVER  
 SAMPLE POINT: AT VERMILION RIVER  
 STATION TYPE: RIVER

STATION ID: 14-0028-059-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 31 42.89 LONG: 081 17 03.29 U T M: 17 0478200.0 5152600.0 4 REGION: 05 DISTANCE: 128.000

*=INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
SAMPLE			UNF.TOT.
DATE	HOUR	SAMPLE	TURB'ITY
YYMMDD	LMT	NUMBER	FTU
			MG/L
			AS ZN
830422	2035	14544	3.80
830527	0640	14568	4.00
830625	1125	14617	3.50
830730	1125	14654	2.80
830827	1105	14691	1.25
831001	1135	14728	3.40
831028	1310	14768	3.30
831126	1140	14802	3.70
MAXIMUM		4.00	0.190
ARITH MEAN		3.22	0.083
GEOM MEAN		3.06	0.067
MINIMUM		1.25	0.036
STD DEV (GEOM *)		0.87	0.064
# SAMP IN STATISTICS		8	8
% SAMP (EXCLUDED)			



STORET CODE: 02  
002  
7950

**DISTANCE: 183.700**

* = INTERIM		TEST-NAME:	NNTKUR K'DAHL N TOTAL UNF. REAC MG/L AS N	PBUT LEAD UNF. TOT. MG/L AS PB	PH	PPUT PHOSPHOR UNF. TOT. MG/L AS P	SS04UR SULPHATE UNF. REAC MG/L AS S04	TURB TURB'ITY FTU	ZNUT ZINC UNF. TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER			PH				
830312	1350	14518	0.530	0.003<	4.14	0.007	179.20	5.50	0.180
		MAXIMUM	0.530		4.14	0.007	179.20	5.50	0.180
		ARITH MEAN	0.530		4.14	0.007	179.20	5.50	0.180
		GEOM MEAN							
		MINIMUM	0.530		4.14	0.007	179.20	5.50	0.180
		STD DEV (GEOM *)							
#	SAMP IN	STATISTICS	1		1	1	1	1	1
	% SAMP	(EXCLUDED)							

## 1983 WATER QUALITY DATA REGION 5

265

B.O.W./ SITE: JUNCTION CREEK  
 SAMPLE POINT: HWY.69 2 CULVERT N.OF TURNER AVE  
 STATION TYPE: RIVER

STATION ID: 14-0028-061-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 31 51.25 LONG: 080 56 56.93

U T M: 17 0503900.0 5152820.0 4

REGION: 05

DISTANCE: 138.238

*INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	COND25	CUUT	DO	FWSTRC	FWTEMP	NIUT	NNOTFR
SAMPLE DATE	HR	SAMPLE	PROJECT	ALK	CONDUCT.	COPPER	DISOLVED	STREAM	WATER	NICKEL	N02+N03N
YYMMDD	LMT	NUMBER	SUB-PROJ CODE	TOTAL MG/L AS CAC03	25C UMHO/CM AT 25 C	UNF.TOT. MG/L AS CU	OXYGEN MG/L AS O	COND.	TEMP DEG.C	UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N
830313	1050	14528	0101	0.00	1680.0	5.600	8.00	3 6 8		35.000	1.450
830424	0915	14560	0101	0.0 <W	1810.0	3.100	7.00	6 8	4.0	73.000	3.310
830528	1115	14595	0101	0.0	1990	3.100	7.00	6 8	10.0	48.000	8.050
830626	0905	14633	0101	0.0	2070.0	4.800	7.00	6 8	20.0	74.000	0.905
830731	0925	14669	0101	0.0	2180.0	3.900	8.00	6 8	20.0	59.000	8.200
831002	0915	14744	0101	0.0	2220.0	4.900	7.00	6 8	15.0	67.000	9.800
831030	0805	14781	0101	0.0	2270.0	4.300	7.00	6 8	3.0	59.000	8.150
831127	0955	14818	0101	0.9 <T	2210.0	2.500	8.00	6 8	2.0	39.000	7.290

MAXIMUM	0.30	0.9	2270.0	5.600	8.00		20.0	74.000	9.800
ARITH MEAN	0.30	0.1 <A	2054	4.025	7.37		10.6	56.750	5.894
GEOM MEAN			2044	3.896	7.36		7.6	54.902	4.496
MINIMUM	0.30	0.00	1680.0	2.500	7.00		2.0	35.000	0.905
STD DEV (GEOM *)			213	1.067	0.52		7.9	14.840	3.455
# SAMP IN STATISTICS	8	8	8	8	8		7	8	8
% SAMP (EXCLUDED)									

*INTERIM TEST-NAME:		NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT
SAMPLE DATE	HR	K'DAHL N TOTAL UNF.REAC	LEAD UNF.TOT. MG/L AS PB	PH	PHOSPHOR UNF.TOT. MG/L AS P	SULPHATE UNF.REAC MG/L AS SO4	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN
YYMMDD	LMT	AS N	AS PB	PH	AS P	AS SO4	FTU	AS ZN
830313	1050	14528	0.018	4.14	0.024	985.00	6.50	2.400
830424	0915	14560	0.008	4.14	0.011		0.23	3.000
830528	1115	14595	0.013	4.03	0.006	1193.75	0.20	2.500
830626	0905	14633	0.130	4.01	0.005	1287.00	0.25	3.300
830731	0925	14669	0.018	4.01	0.007	1436.00	0.37	3.200
831002	0915	14744	0.021	3.98	0.131	1420.00	0.67	3.300
831030	0805	14781	0.069	4.02	0.010	1416.30	1.22	2.300
831127	0955	14818	0.017	4.03	0.007	1335.00	0.59	1.800

MAXIMUM	7.600	0.130	4.14	0.131	1436.00	6.50	3.300
ARITH MEAN	5.369	0.037	4.04	0.025	1296.15	1.25	2.725
GEOM MEAN	4.969	0.024	4.04	0.012	1286.56	0.58	2.672
MINIMUM	2.050	0.008	3.98	0.005	985.00	0.20	1.800
STD DEV (GEOM *)	1.959	0.042	0.06	0.043	162.39	2.15	0.555
# SAMP IN STATISTICS	8	8	8	8	7	8	8
% SAMP (EXCLUDED)							

830313	1035	14527	0.30	0101	12.0	790.0	0.220	8.00	0.725	6 8	4.0	2.000
830424	0855	14559	0.30	0101	26.0	798.0	0.410	7.00	0.275	6 8	10.0	4.000
830528	1055	14594	0.30	0101	6.7	706.0	0.900	7.00	0.170	6 8	21.0	9.500
830626	0845	14632	0.30	0101	3.2	1340.0	3.600	7.00	0.490	6 8	21.0	6.800
830731	0905	14668	0.30	0101	21.0	1490.0	1.500	7.00	0.300	6 8	15.0	17.000
831002	0900	14743	0.30	0101	2.5	1187.0	1.700	7.00	0.365	6 8	3.0	6.900
831030	0745	14780	0.30	0101	7.5	713.0	0.950	7.00	0.150	6 8	2.0	5.100
831127	0940	14817	0.30	0101	19.5	701.0	0.330	8.00				

MAXIMUM	0.30	26.0	1490.0	3.600	8.00	0.725	21.0	17.000
ARITH MEAN	0.30	12.3	965.6	1.201	7.25	0.354	10.9	6.687
GEOM MEAN		9.2	923.1	0.834	7.24	0.310	7.7	5.359
MINIMUM	0.30	2.5	701.0	0.220	7.00	0.150	2.0	2.000
STD DEV (GEOM *)		8.9	321.7	1.108	0.46	0.200	8.3	4.872
# SAMP IN STATISTICS	8	8	8	8	8	7	7	8
% SAMP (EXCLUDED)								

*INTERIM TEST-NAME:		NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT	
		NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC	
		FIL.REAC	TOTAL	UNF.TOT.		UNF.TOT.	UNF.REAC		UNF.TOT.	
SAMPLE		MG/L	MG/L	MG/L		MG/L	MG/L	TURB*ITY	MG/L	
DATE	HR	AS N	AS N	AS PB	PH	AS P	AS S04	FTU	AS, ZN	
YYMMDD	LMT	SAMPLE								
NUMBER										
830313	1035	14527	0.575	0.780	0.003<	7.36	0.012	82.65	6.30	0.200
830424	0855	14559	0.295	1.020	0.003<	7.44	0.015	106.25	3.40	0.240
830528	1055	14594	0.335	0.340	0.003<	5.89	0.006	160.75	2.40	0.540
830626	0845	14632	0.225	0.250	0.034	5.02	0.011	438.75	8.00	1.400
830731	0905	14668	0.070	0.260	0.003<	6.77	0.009	429.20	1.80	1.100
831002	0900	14743	0.235	0.560	0.004	5.09	0.320	438.00	4.60	1.200
831030	0745	14780	0.375	0.510	0.011	6.15	0.019	231.10	6.90	0.570
831127	0940	14817	0.705	0.680	0.003<	6.36	0.002<T	177.15	3.30	0.340
MAXIMUM		0.705	1.020	0.034	7.44	0.320	438.75	8.00	1.400	
ARITH MEAN		0.352	0.550	0.016	6.26	0.049<A	257.98	4.59	0.699	
GEOM MEAN		0.294	0.492		6.20	0.014<A	216.16	4.08	0.557	
MINIMUM		0.070	0.250	0.004	5.02	0.002	82.65	1.80	0.200	
STD DEV (GEOM *)		0.203	0.270		0.92	0.110<A	153.47	2.25	0.468	
# SAMP IN STATISTICS		8	8	3	8	8	8	8	8	
% SAMP (EXCLUDED)				62						

## 1983 WATER QUALITY DATA REGION 5

267

B.O.W./ SITE: JUNCTION CREEK  
 SAMPLE POINT: HWY 69 N 1000M N OF STOBIE MINE RD  
 STATION TYPE: RIVER

STATION ID: 14-0028-063-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 33 14.22 LONG: 080 58 58.01 U T M: 17 0501320.0 5155380.0 4 REGION: 05 DISTANCE: 140.491

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEHP	NIUT
				ALK	CONDUCT.	COPPER	DISOLVED	IRON			NICKEL
SAMPLE DATE	HOUR	SAMPLE DEPTH	PROJECT SUB-PROJ	TOTAL MG/L	25C UMHO/CM	UNF.TOT. MG/L	OXYGEN MG/L	UNF.TOT. MG/L	STREAM COND.	WATER TEMP DEG.C	UNF.TOT. MG/L
YYMMDD	LMT	NUMBER	CODE	AS CAC03	AT 25 C	AS CU	AS O	AS FE			AS NI
830313	1110	14529	0101	1.7	113.0	0.079	8.00	0.565	3 6 8		0.860
830424	0935	14561	0101	0.7	145.0	0.180	8.00	0.190	6 8	4.0	2.500
MAXIMUM		0.30		1.7	145.0	0.180	8.00	0.565		4.0	2.500
ARITH MEAN		0.30		1.2	129.0	0.129	8.00	0.377		4.0	1.680
GEOM MEAN				1.1	128.0	0.119	8.00	0.328			1.466
MINIMUM		0.30		0.7	113.0	0.079	8.00	0.190		4.0	0.860
STD DEV (GEOM *)				0.7	22.6	0.071	0.00	0.265			1.160
# SAMP IN STATISTICS		2		2	2	2	2	2		1	2
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT	
			K'DAHL N							
SAMPLE DATE	HOUR	NO2+NO3N	TOTAL	LEAD		PHOSPHOR	SULPHATE		ZINC	
YYMMDD	LMT	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.	UNF.REAC		UNF.TOT.	
		MG/L	MG/L	MG/L		MG/L	MG/L		MG/L	
		AS N	AS N	AS PB	PH	AS P	AS S04	TURB'ITY	AS ZN	
								FTU		
830313	1110	14529	0.215	0.450	0.003	4.89	0.013	38.65	1.80	0.075
830424	0935	14561	0.020	0.190	0.003<	4.52	0.009	48.94	0.72	0.180
MAXIMUM		0.215	0.450	0.003	4.89	0.013	48.94	1.80	0.180	
ARITH MEAN		0.117	0.320	0.003	4.70	0.011	43.79	1.26	0.127	
GEOM MEAN		0.066	0.292		4.70	0.011	43.49	1.14	0.116	
MINIMUM		0.020	0.190	0.003	4.52	0.009	38.65	0.72	0.075	
STD DEV (GEOM *)		0.138	0.184		0.26	0.003	7.28	0.76	0.074	
# SAMP IN STATISTICS		2	2	1	2	2	2	2	2	
% SAMP (EXCLUDED)				50						

STATION ID: 14-0028-064-02

STORET CODE: 02  
002  
7950

LAT: 46 16 37.20 LONG: 082 09 02.14 U T M: 17 0411350.0 5125250.0 4 REGION: 05 DISTANCE: 50.522

*INTERIM		TEST-NAME:	GACP	GBCF	GBCP	NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	RA226F
			GROSS ALPHA CT	GROSS BETA CT	GROSS BETA CT	NICKEL	NO2+NO3N	K DAHL N TOTAL	LEAD		PHOSPHOR	
SAMPLE DATE	HOUR	SAMPLE NUMBER	UNDISSOL	FILTERED	UNDISSOL	UNF.TOT. MG/L	FIL.REAC MG/L	UNF.REAC MG/L	UNF.TOT. MG/L		UNF.TOT. MG/L	RADIUM 226 FIL.
YYMMDD	LMT		MBQ/L	MBQ/L	MBQ/L	AS NI	AS N	AS N	AS PB	PH	AS P	MBQ/L
830127	1200	12330	40<	50	40<	0.001<	0.135	0.250	0.003<		0.001<	40<
830417	2000	12362	40<	40	40<	0.002<	0.120	0.310	0.003<	6.5410	0.020	40<
830531	1900	12394	40<	40<	40<	0.002<	0.020	0.290	0.003<	6.742	0.024	40<
830626	1900	12426	40<	50	40<		0.050	0.280		7.100	0.008	40<
830727	1900	12458	40<	50	40<	0.002<			0.003<			40<
830831	1900	12490	40<	40<	40<	0.002<	0.070	0.320	0.003<	7.204	0.006	40<
830929	1900	12522	40<	40<	40<	0.001<	0.065	0.240	0.003<	7.245	0.014	40<
831109	1900	12554				0.002<	0.045	0.230	0.003<	6.79	0.007	
MAXIMUM				50			0.135	0.320		7.245	0.024	
ARITH MEAN				47			0.072	0.274		6.92	0.011<	A
GEOM MEAN							0.061	0.272		6.91	0.008<	A
MINIMUM				40			0.020	0.230		6.541	0.001	
STD DEV (GEOM *)							0.041	0.035		0.27	0.008<	A
# SAMP IN STATISTICS				4			7	7		7	7	
% SAMP (EXCLUDED)				42								

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

269

B.O.W./ SITE: AUX SABLES RIVER  
 SAMPLE POINT: AT BRIDGE DOWNSTREAM FROM CAMERON FALLS  
 STATION TYPE: RIVER

STATION ID: 14-0028-064-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 16 37.20 LONG: 082 09 02.14 U T M: 17 0411350.0 5125250.0 4 REGION: 05 DISTANCE: 50.522

*INTERIM TEST-NAME:		SS04UR	TURB	UU238	ZNUT
		SULPHATE			ZINC
SAMPLE		UNF.REAC		URANIUM	UNF.TOT.
DATE	HOUR	MG/L	TURB*ITY	238	MG/L
YYMMDD	LMT	AS S04	FTU	UG/L	AS ZN
830127	1200	12330	9.03	0.62	3< 0.004
830417	2000	12362	7.68	2.80	4 0.004
830531	1900	12394	7.54	1.17	3< 0.002
830626	1900	12426	7.62	1.00	3< 0.002
830727	1900	12458	7.66	0.66	3< 0.001<
830831	1900	12490	7.40	1.14	3< 0.002
830929	1900	12522	9.96	1.42	0.004
831109	1900	12554			
MAXIMUM		9.96	2.80	4	0.004
ARITH MEAN		8.13	1.26	4	0.003
GEOM MEAN		8.08	1.12		
MINIMUM		7.40	0.62	4	0.002
STD DEV (GEOM *)		0.98	0.74		
# SAMP IN STATISTICS		7	7	1	6
% SAMP (EXCLUDED)				85	14

## 1983 WATER QUALITY DATA REGION 5

270

B.O.W./ SITE: ONAPING RIVER  
 SAMPLE POINT: GRASSY CR DNSTR INCO TAILINGS  
 STATION TYPE: RIVER

STATION ID: 14-0028-065-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 39 02.39 LONG: 081 23 21.95 U T M: 17 0470200.0 5166200.0 4 REGION: 05 DISTANCE: 24.160

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	NIUT
				ALK	CONDUCT.	COPPER	DISOLVED	IRON			NICKEL
SAMPLE		SAMPLE	PROJECT	TOTAL	25C	UNF.TOT.	OXYGEN	UNF.TOT.		WATER	UNF.TOT.
DATE	HR	DEPTH	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	TEMP	MG/L
YYMMDD	LMT	M	CODE	AS CAC03	AT 25 C	AS CU	AS O	AS FE	COND.	DEG.C	AS NI
830424	1600	14534	0101	7.8	1010.0	0.005	5.00	4.650	6 9	4.0	0.560
830527	1440	14575	0101	2.6	1067.0	0.140	5.00	5.130	6 9	9.0	2.600
830625	1400	14623	0101	4.7	1136.0	0.045	6.00	4.000	6 9	21.0	0.180
830730	1335	14660	0101	2.8	1244.0	0.023	6.00	4.050	6 9	20.0	0.100
830827	1315	14697	0101	6.3	1305.0	0.024	5.00	3.750	6 9	20.0	0.110
831001	1350	14734	0101	8.5	1540.0	0.027		3.150		15.0	0.370
831028	0920	14757	0101	33.3	1590.0	0.068	6.00	3.550	6 8 9	4.0	0.250
831126	1320	14808	0101	46.0	1520.0	0.068	6.00	3.000	6 8	2.0	0.430
MAXIMUM		0.30		46.0	1590.0	0.140	6.00	5.130		21.0	2.600
ARITH MEAN		0.30		14.0	1301.5	0.050	5.57	3.910		11.9	0.575
GEOM MEAN				8.3	1284.2	0.035	5.55	3.853		8.8	0.322
MINIMUM		0.30		2.6	1010.0	0.005	5.00	3.000		2.0	0.100
STD DEV (GEOM *)				16.3	226.3	0.043	0.53	0.720		8.1	0.834
# SAMP IN STATISTICS		8		8	8	8	7	8		8	8
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT	
			K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC	
		NO2+NO3N	TOTAL	UNF.TOT.		UNF.TOT.	UNF.REAC		UNF.TOT.	
		FIL.REAC	UNF.REAC	MG/L		MG/L	MG/L		MG/L	
SAMPLE		MG/L	MG/L	MG/L		MG/L	MG/L	TURB'ITY	MG/L	
DATE	HR	AS N	AS N	AS PB	PH	AS P	AS S04	FTU	AS ZN	
YYMMDD	LMT									
830424	1600	14534	1.920	0.270	0.003<	6.25	0.275	449.00	21.00	0.007
830527	1440	14575	1.660	1.150	0.003<	4.51	0.005<T	483.30	21.00	0.046
830625	1400	14623	0.365	0.550	0.007	4.80	0.015<T	507.00	25.00	0.016
830730	1335	14660	0.270	0.500	0.003<	4.74	0.010<T	582.25	25.00	0.011
830827	1315	14697	0.265	0.470	0.003<	4.88	0.012	578.75	26.00	0.015
831001	1350	14734	1.850	0.870	0.003<	6.16	0.025	704.00	27.00	0.014
831028	0920	14757	2.790	1.280	0.003<	7.86	0.016	754.00	7.60	0.022
831126	1320	14808	3.310	2.600	0.003<	10.54	0.007	666.80	18.50	0.018
MAXIMUM		3.310	2.600	0.007	10.54	0.275	754.00	27.00	0.046	
ARITH MEAN		1.554	0.961	0.007	6.22	0.046<A	590.64	21.39	0.019	
GEOM MEAN		1.045	0.764		5.96	0.017<A	581.77	20.15	0.016	
MINIMUM		0.265	0.270	0.007	4.51	0.005	449.00	7.60	0.007	
STD DEV (GEOM *)		1.169	0.749		2.08	0.093<A	109.63	6.30	0.012	
# SAMP IN STATISTICS		8	8	1	8	8	8	8	8	
% SAMP (EXCLUDED)				87						

## 1983 WATER QUALITY DATA REGION 5

271

B.O.W./ SITE: ONAPING RIVER  
 SAMPLE POINT: GRASSY CR UPSTR MOOSE CREEK  
 STATION TYPE: RIVER

STATION ID: 14-0028-066-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 38 30.04 LONG: 081 23 05.25 U T M: 17 0470550.0 5165200.0 4 REGION: 05 DISTANCE: 22.560

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	NIUT
SAMPLE DATE	HR	SAMPLE	PROJECT	ALK	CONDUCT.	COPPER	DISOLVED	IRON			NICKEL
YYMMDD	LMT	NUMBER	SUB-PROJ	TOTAL	25C	UNF. TOT.	OXYGEN	UNF. TOT.	STREAM	WATER	UNF. TOT.
			CODE	MG/L	UMHO/CM	MG/L	MG/L	MG/L	COND.	TEMP	MG/L
				AS CACO3	AT 25 C	AS CU	AS O	AS FE		D.G.C	AS NI
830422	1635	14535	0101	12.0	1003.0	0.075	6.00	3.875	3 6 8	3.0	0.720
830527	1500	14576	0101	0.1<W	1008.0	0.210	6.00	4.500	6 8	9.0	2.300
830625	1445	14625	0101	3.8	1131.0	0.058	7.00	0.165	6	21.0	0.210
830730	1415	14662	0101	3.7	1235.0	0.031	6.00	0.045	6 8	21.0	0.160
830827	1350	14699	0101	2.9	1340.0	0.032	6.00	0.050	6 8	20.0	0.180
831001	1435	14736	0101	6.7	1500.0	0.032	7.00	0.070	6 8	15.0	0.450
831028	1000	14759	0101	29.2	1570.0	0.069	7.00	2.300	6 8	4.0	0.230
831126	1400	14810	0101	29.4	1460.0	0.065	7.00	2.625	6 8	2.0	0.440
MAXIMUM		0.30		29.4	1570.0	0.210	7.00	4.500		21.0	2.300
ARITH MEAN		0.30		11.0<A	1280.9	0.071	6.50	1.704		11.9	0.586
GEOM MEAN				4.8<A	1263.8	0.058	6.48	0.478		8.6	0.382
MINIMUM		0.30		0.1	1003.0	0.031	6.00	0.045		2.0	0.160
STD DEV (GEOM *)				11.8<A	221.5	0.059	0.53	1.862		8.4	0.718
# SAMP IN STATISTICS		8		8	8	8	8	8		8	8
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT
SAMPLE DATE	HR	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC
YYMMDD	LMT	FIL.REAC	UNF.REAC	UNF. TOT.		UNF. TOT.	UNF. REAC	TURB'ITY	UNF. TOT.
		MG/L	MG/L	MG/L	PH	MG/L	MG/L	FTU	MG/L
		AS N	AS N	AS PB		AS P	AS SO4		AS ZN
830422	1635	14535	0.260	0.003<	6.59	0.365	427.50	16.00	0.019
830527	1500	14576	0.950	0.003<	4.61	0.007<T	455.70	18.00	0.058
830625	1445	14625	0.470	0.003	5.45	0.008	506.50	1.50	0.017
830730	1415	14662	0.280	0.003<	5.23	0.001<T	570.75	0.48	0.017
830827	1350	14699	0.230	0.003<	5.28	0.003<T	585.50	0.37	0.013
831001	1435	14736	0.660	0.003<	6.48	0.005	696.00	1.19	0.020
831028	1000	14759	1.190	0.010	7.43	0.015	750.00	7.20	0.017
831126	1400	14810	3.260	0.003<	10.15	0.007	655.30	14.40	0.013
MAXIMUM		3.260	1.960	0.010	10.15	0.365	750.00	18.00	0.058
ARITH MEAN		1.481	0.781	0.006	6.40	0.051<A	580.91	7.39	0.022
GEOM MEAN		0.981	0.633		6.22	0.009<A	570.87	3.14	0.019
MINIMUM		0.230	0.260	0.003	4.61	0.001	427.50	0.37	0.013
STD DEV (GEOM *)		1.160	0.572		1.77	0.127<A	114.79	7.62	0.015
# SAMP IN STATISTICS		8	8	2	8	8	8	8	8
% SAMP (EXCLUDED)				75					



## 1983 WATER QUALITY DATA REGION 5

272

B.O.W./ SITE: ONAPING RIVER  
 SAMPLE POINT: MOOSE CR UPSTR GRASSY CR  
 STATION TYPE: RIVER

STATION ID: 14-0028-067-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 38 33.32 LONG: 081 22 53.52 U T M: 17 0470800.0 5165300.0 4 REGION: 05 DISTANCE: 23.360

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	NIUT
SAMPLE				ALK	CONDUCT.	COPPER	DISOLVED	IRON			NICKEL
DATE	HR	SAMPLE	SAMPLE	TOTAL	25C	UNF.TOT.	OXYGEN	UNF.TOT.		WATER	UNF.TOT.
YYMMDD	LMT	NUMBER	DEPTH	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	TEMP	MG/L
			H	AS CAC03	AT 25 C	AS CU	AS O	AS FE	COND.	DEG.C	AS NI
830422	1700	14536	0.30	0101	2.9	777.0	0.210	7.00	0.490	6 8	2.500
830527	1520	14577	0.30	0101	1.7	887.0	0.330	6.00	0.990	6 8	2.600
830625	1500	14626	0.30	0101	3.8	1131.0	0.140	6.00	1.300	6 8	1.800
830730	1440	14663	0.30	0101	0.1<W	1110.0	0.860	7.00		6 8	25.000
830827	1415	14700	0.30	0101	0.0	1320.0	1.100	7.00		6 8	39.000
831001	1500	14737	0.30	0101	1.7	1206.0	0.310	7.00	0.505	6 8	3.500
831028	1015	14760	0.30	0101	8.8	1159.0	0.220	7.00	0.460	6 8	1.500
831126	1415	14811	0.30	0101	5.6	1061.0	0.360	7.00	0.705	6 8	2.500
	MAXIMUM	0.30		8.8	1320.0	1.100	7.00	1.300		21.0	39.000
	ARITH MEAN	0.30		3.1<A	1081.4	0.441	6.75	0.742		12.0	9.800
	GEOM MEAN				1068.1	0.350	6.74	0.685		8.6	4.435
	MINIMUM	0.30		0.0	777.0	0.140	6.00	0.460		2.0	1.500
	STD DEV (GEOM *)				174.3	0.346	0.46	0.339		8.5	14.216
	# SAMP IN STATISTICS	8		8	8	8	8	6		8	8
	% SAMP (EXCLUDED)										

*=INTERIM	TEST-NAME:	NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT	
SAMPLE			K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC	
DATE	HR	SAMPLE	TOTAL	UNF.TOT.		UNF.TOT.	UNF.REAC		UNF.TOT.	
YYMMDD	LMT	NUMBER	MG/L	MG/L		MG/L	MG/L	TURB'ITY	MG/L	
			AS N	AS N	AS PB	AS P	AS S04	FTU	AS ZN	
830422	1700	14536	0.250	0.580	0.003<	5.36	0.011	312.75	5.80	0.083
830527	1520	14577	0.270	0.570	0.003<	4.78	0.006	348.50	2.50	0.071
830625	1500	14626	0.275	0.870	0.003<	5.50	0.038	465.00	1.50	0.059
830730	1440	14663	0.240	0.430	0.005	4.50	0.006	583.00	1.50	0.510
830827	1415	14700	0.325	1.530	0.010	4.28	0.011	754.75	0.30	0.720
831001	1500	14737	0.195	0.390	0.003<	4.88	0.011	501.00	1.90	0.086
831028	1015	14760	0.240	0.520	0.003<	6.66	0.012	500.00	3.10	0.073
831126	1415	14811	0.300	0.490	0.003<	5.82	0.002<T	432.30	6.30	0.079
	MAXIMUM	0.325	1.530	0.010	6.66	0.038	754.75	6.30	0.720	
	ARITH MEAN	0.262	0.672	0.007	5.22	0.012<A	487.16	2.86	0.210	
	GEOM MEAN	0.259	0.609		5.17	0.009<A	470.83	2.09	0.126	
	MINIMUM	0.195	0.390	0.005	4.28	0.002	312.75	0.30	0.059	
	STD DEV (GEOM *)	0.040	0.376		0.78	0.011<A	138.51	2.13	0.256	
	# SAMP IN STATISTICS	8	8	2	8	8	8	8	8	
	% SAMP (EXCLUDED)			75						

## 1983 WATER QUALITY DATA REGION 5

273

B.O.W./ SITE: ONAPING RIVER  
 SAMPLE POINT: MOOSE CR UPSTR LEVAC MINE  
 STATION TYPE: RIVER

STATION ID: 14-0028-068-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 39 07.55 LONG: 081 21 47.89 U T M: 17 0472200.0 5166350.0 4 REGION: 05 DISTANCE: 24.960

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CONDAM	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP
				ALK	CONDUCT.	CONDUCT.	COPPER	DISOLVED	IRON		
SAMPLE DATE	YEAR	SAMPLE	SAMPLE	TOTAL	AMBIENT	25C	UNF.TOT.	OXYGEN	UNF.TOT.	STREAM	WATER
YYMMDD	LHT	NUMBER	DEPTH	MG/L	UMHO/CM	UMHO/CM	MG/L	MG/L	MG/L	COND.	TEMP
			M	AS CACO3	AMBIENT	AT 25 C	AS CU	AS O	AS FE		DEG.C
830422	1720	14537	0.30	2.7	368	786.0	0.180	7.00	0.650		3.0
830527	1535	14578	0.30	2.1		918.0	0.160	7.00	0.525	6 8	9.0
830625	1515	14627	0.30	4.0		1131.0	0.072	7.00	0.390	6 8	21.0
830730	1505	14664	0.30	2.1		1040.0	0.340	7.00	0.110	6 8	21.0
830827	1440	14701	0.30	1.4		1276.0	0.560	7.00		6 8	21.0
831001	1520	14738	0.30	3.0		1188.0	0.130	7.00	0.350	6 8	15.0
831028	1035	14761	0.30	11.8		1174.0	0.110	8.00	0.180	6 8	4.0
831126	1430	14812	0.30	3.6		1101.0	0.130	8.00	0.370	6 8	2.0
MAXIMUM		0.30		11.8	368	1276.0	0.560	8.00	0.650		21.0
ARITH MEAN		0.30		3.8	368	1076.7	0.210	7.25	0.368		12.0
GEOM MEAN				3.1		1065.6	0.171	7.24	0.320		8.6
MINIMUM		0.30		1.4	368	786.0	0.072	7.00	0.110		2.0
STD DEV (GEOM *)				3.3		158.6	0.162	0.46	0.186		8.5
# SAMP IN STATISTICS		8		8	1	8	8	8	7		8
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	SSO4UR	TURB	ZNUT
		NICKEL	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC
SAMPLE DATE	YEAR	UNF.TOT.	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.	UNF.REAC	TURB*ITY	UNF.TOT.
YYMMDD	LHT	MG/L	MG/L	MG/L	MG/L	PH	MG/L	MG/L	FTU	MG/L
		AS NI	AS N	AS N	AS PB		AS P	AS S04		AS ZN
830422	1720	2.500	0.250	0.580	0.003<	5.53	0.001<T	308.50	4.50	0.092
830527	1535	1.800	0.275	0.570	0.003<	5.00	0.005	370.70	1.50	0.052
830625	1515	1.400	0.285	0.640	0.007	5.58	0.009	467.00	1.50	0.038
830730	1505	5.500	0.060	0.100	0.003<	4.93	0.003<T	427.20	1.60	0.140
830827	1440	8.400	0.085	0.140	0.003<	4.84	0.001<T	511.25	0.22	0.220
831001	1520	1.500	0.195	0.500	0.007	5.67	0.007	491.00	1.70	0.067
831028	1035	1.100	0.210	0.530	0.003<	6.53	0.008	495.00	1.08	0.054
831126	1430	1.600	0.275	0.450	0.003<	6.08	0.001<T	439.50	3.60	0.053
MAXIMUM		8.400	0.285	0.640	0.007	6.53	0.009	511.25	4.50	0.220
ARITH MEAN		2.975	0.204	0.439	0.007	5.52	0.004<A	438.77	1.96	0.089
GEOM MEAN		2.295	0.180	0.370		5.49	0.003<A	433.45	1.48	0.076
MINIMUM		1.100	0.060	0.100	0.007	4.84	0.001	308.50	0.22	0.038
STD DEV (GEOM *)		2.604	0.088	0.205		0.59	0.003<A	69.36	1.39	0.062
# SAMP IN STATISTICS		8	8	8	2	8	8	8	8	8
% SAMP (EXCLUDED)					75					

## 1983 WATER QUALITY DATA REGION 5

274

B.O.W./ SITE: ONAPING RIVER  
 SAMPLE POINT: HIGHCLIFF CR AT HWY 544  
 STATION TYPE: RIVER

STATION ID: 14-0028-069-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 37 49.38 LONG: 081 23 54.35 U T M: 17 0469500.0 5163950.0 4 REGION: 05 DISTANCE: 20.960

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	NIUT
				ALK	CONDUCT.	COPPER	DISOLVED	IRON			NICKEL
SAMPLE DATE	HOUR	SAMPLE	SAMPLE	PROJECT	TOTAL	UNF.TOT.	OXYGEN	UNF.TOT.		WATER	UNF.TOT.
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	MG/L	MG/L	MG/L	MG/L	STREAM	TEMP	MG/L
			M	CODE	AS CAC03	AT 25 C	AS O	AS FE	COND.	DEG.C	AS NI
830422	1815	14539	0.30	0101	2.9	95.4	0.068	8.00	0.220	6.8	3.0
830527	1625	14580	0.30	0101	10.5	91.1	0.043	8.00	0.250	6.8	9.0
830625	1600	14629	0.30	0101	1.8	234.0	1.000	8.00	0.910	6.8	5.600
830730	1555	14666	0.30	0101	0.0	630.0	3.600	8.00		6.8	21.0
830827	1525	14705	0.30	0101	0.1<T	2040.0	3.100	7.00		6.8	21.0
831001	1610	14740	0.30	0101	2.2	205.0	0.470	8.00	0.425	6.8	15.0
831028	1120	14763	0.30	0101	0.0	815.0	8.400	8.00		6.8	4.0
831126	1510	14814	0.30	0101	6.7	143.0	0.061	10.00	0.320	6.8	2.0
MAXIMUM		0.30			10.5	2040.0	8.400	10.00	0.910		22.0
ARITH MEAN		0.30			3.0<A	531.7	2.093	8.12	0.425		12.1
GEOM MEAN						298.2	0.546	8.09	0.369		8.7
MINIMUM		0.30			0.0	91.1	0.043	7.00	0.220		2.0
STD DEV (GEOM *)						665.0	2.911	0.83	0.282		8.7
# SAMP IN STATISTICS		8			8	8	8	8	5		8
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT
			K'DAHL N						
SAMPLE DATE	HOUR	SAMPLE	NO2+NO3N	UNF.REAC	LEAD	PHOSPHOR	SULPHATE		ZINC
YYMMDD	LMT	NUMBER	FIL.REAC	MG/L	UNF.TOT.	UNF.TOT.	UNF.REAC	TURB'ITY	UNF.TOT.
			MG/L	MG/L	MG/L	MG/L	MG/L	FTU	MG/L
			AS N	AS N	AS PB	AS P	AS S04		AS ZN
830422	1815	14539	0.070	0.280	0.003<	5.81	0.084	17.00	1.40
830527	1625	14580	0.010<T	0.380	0.003<	6.33	0.160	15.78	1.40
830625	1600	14629	0.105	0.700	0.010	4.62	0.358	92.80	6.40
830730	1555	14666	0.180	0.500	0.003<	4.40	0.295	350.10	14.00
830827	1525	14705	5.100	3.950	0.015	4.51	0.009	1180.00	1.85
831001	1610	14740	0.030	0.500	0.003<	5.28	0.169	51.60	6.50
831028	1120	14763	0.245	0.650	0.003<	4.40	0.287	490.00	13.70
831126	1510	14814	0.045	0.620	0.003<	6.80	0.235	25.52	2.90
MAXIMUM		5.100	3.950	0.015	6.80	0.358	1180.00	14.00	2.500
ARITH MEAN		0.723<A	0.947	0.012	5.27	0.200	277.85	6.02	0.462
GEOM MEAN		0.111<A	0.644		5.20	0.140	95.00	4.13	0.093
MINIMUM		0.010	0.280	0.010	4.40	0.009	15.78	1.40	0.010
STD DEV (GEOM *)		1.770<A	1.221		0.95	0.117	405.31	5.25	0.855
# SAMP IN STATISTICS		8	8	2	8	8	8	8	8
% SAMP (EXCLUDED)				75					

## 1983 WATER QUALITY DATA REGION 5

275

B.O.W./ SITE: JUNCTION CREEK  
 SAMPLE POINT: HWY 69 N, 3RD CULVERT N OF TURNER AVE  
 STATION TYPE: RIVER

STATION ID: 14-0028-070-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STORET CODE: 02  
 002  
 7950

LAT: 46 32 15.90 LONG: 080 58 45.82

U T M: 17 0501580.0 5153580.0 4

REGION: 05

DISTANCE: 137.543

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP	NIUT
SAMPLE		SAMPLE	PROJECT	ALK	CONDUCT.	COPPER	DISOLVED	IRON			NICKEL
DATE	HOUR	DEPTH	SUB-PROJ	TOTAL	25C	UNF.TOT.	OXYGEN	UNF.TOT.		WATER	UNF.TOT.
YYMMDD	LHT	NUMBER	CODE	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	TEMP	MG/L
		H	AS	CAC03	AT 25 C	AS CU	AS O	AS FE	COND.	DEG.C	AS NI
830528	1130	14596	0101	1.7	325.0	0.310	7.00	0.530	6 8	10.0	2.200
830626	0925	14634	0101	90.7	4220.0	0.160	6.00	4.075	6 8	22.0	0.520
830828	0940	14708	0101	46.6	995.0	0.037	5.00	1.375	6 8 9	21.0	1.100
831002	0935	14745	0101	25.0	650.0	0.078	5.00	3.425	6 8 9	16.0	1.600
831030	0820	14782	0101	5.2	277.0	0.110	6.00	0.375	6 8 9	4.0	0.830
831127	1010	14819	0101	4.2	224.0	0.130	8.00	0.285	6 8	2.0	1.300

MAXIMUM	0.30		90.7	4220.0	0.310	8.00	4.075		22.0	2.200
ARITH MEAN	0.30		28.9	1115.2	0.137	6.17	1.677		12.5	1.258
GEOM MEAN			12.6	616.8	0.113	6.08	1.014		9.2	1.138
MINIMUM	0.30		1.7	224.0	0.037	5.00	0.285		2.0	0.520
STD DEV (GEOM *)			34.8	1548.7	0.095	1.17	1.664		8.5	0.593
# SAMP IN STATISTICS	6		6	6	6	6	6		6	6
% SAMP (EXCLUDED)										

*INTERIM TEST-NAME:		NNOTFR	NNTKUR	PBUT	PH	PPUT	SSO4UR	TURB	ZNUT	
SAMPLE		NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC	
DATE	HOUR	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.	UNF.REAC		UNF.TOT.	
YYMMDD	LHT	MG/L	MG/L	MG/L	PH	MG/L	MG/L	TURB'ITY	MG/L	
		AS N	AS N	AS PB		AS P	AS S04	FTU	AS ZN	
830528	1130	14596	0.115	0.390	0.003<	5.01	0.006	73.10	2.00	0.150
830626	0925	14634	0.255	0.750	0.009	6.62	0.022	82.20	23.00	0.066
830828	0940	14708	0.030	0.500	0.003<	7.14	0.011	203.90	6.10	0.047
831002	0935	14745	0.055	0.450	0.003<	7.28	0.009	126.00	5.90	0.110
831030	0820	14782	0.080	0.450	0.003<	6.32	0.009	62.30	3.50	0.082
831127	1010	14819	0.340	0.310	0.003<	5.20	0.008	76.30	2.40	0.087
MAXIMUM		0.340	0.750	0.009	7.28	0.022	203.90	23.00	0.150	
ARITH MEAN		0.146	0.475	0.009	6.26	0.011	103.97	7.15	0.090	
GEOM MEAN		0.105	0.458		6.20	0.010	94.97	4.90	0.085	
MINIMUM		0.030	0.310	0.009	5.01	0.006	62.30	2.00	0.047	
STD DEV (GEOM *)		0.124	0.150		0.96	0.006	53.67	7.95	0.036	
# SAMP IN STATISTICS	6	6	6	1	6	6	6	6	6	
% SAMP (EXCLUDED)				83						

## 1983 WATER QUALITY DATA REGION 5

276

B.O.W./ SITE: JUNCTION CREEK  
 SAMPLE POINT: AT CULVERT ON TURNER AVE  
 STATION TYPE: RIVER

200M W OF HWY 69N  
 MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SPANISH RIVER

STATION ID: 14-0028-071-02

STORET CODE: 02  
 002  
 7950

LAT: 46 31 35.08 LONG: 080 59 06.49

U T M: 17 0501140.0 5152320.0 4

REGION: 05

DISTANCE: 134.393

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALK	COND25	CUOT	DO	FEUT	FWSTRC	FWTEMP	NIUT
				ALK	CONDUCT.	COPPER	DISOLVED	IRON			NICKEL
SAMPLE DATE	HOUR	SAMPLE	PROJECT	TOTAL	25C	UNF.TOT.	OXYGEN	UNF.TOT.		WATER	UNF.TOT.
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM	TEMP	MG/L
			CODE	AS CAC03	AT 25 C	AS CU	AS O	AS FE	COND.	DEG.C	AS NI
830528	1030	14593	0101	19.2	532.0	0.070	7.00	0.175	6 8	10.0	2.400
830626	0950	14635	0101	36.2	634.0	0.040	6.00	0.920	6 8	22.0	0.300
830731	0845	14667	0101	85.6	940.0	0.036	7.00	0.755	6 8	22.0	0.280
830828	1000	14709	0101	78.0	1125.0	0.140	6.00	0.875	6 8	22.0	1.600
831002	0950	14746	0101	4.3	1151.0	1.000	6.00		6 8 9	16.0	18.000
831030	0845	14783	0101	21.6	676.0	0.110	7.00	0.405	6 8 9	4.0	6.500
831127	1025	14820	0101	24.4	713.0	0.120	7.00	0.110	6 8 9	3.0	5.000
MAXIMUM		0.30		85.6	1151.0	1.000	7.00	0.920		22.0	18.000
ARITH MEAN		0.30		38.5	824.4	0.217	6.57	0.540		14.1	4.869
GEOM MEAN				27.0	793.4	0.109	6.55	0.410		11.1	2.114
MINIMUM		0.30		4.3	532.0	0.036	6.00	0.110		3.0	0.280
STD DEV (GEOM *)				31.1	247.2	0.348	0.53	0.358		8.5	6.243
* SAMP IN STATISTICS		7		7	7	7	7	6		7	7
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT
			K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC
SAMPLE DATE	HOUR	SAMPLE	NO2+NO3N	UNF.REAC	UNF.TOT.	UNF.TOT.	UNF.REAC	TURB'ITY	UNF.TOT.
YYMMDD	LMT	NUMBER	FIL.REAC	MG/L	MG/L	MG/L	MG/L	FTU	MG/L
			AS N	AS N	AS PB	AS P	AS SO4		AS ZN
830528	1030	14593	0.240	0.320	0.003<	6.99	0.006	87.00	0.190
830626	0950	14635	0.060	0.310	0.004	7.50	0.012	73.70	0.019
830731	0845	14667	0.035	0.680	0.003<	7.46	0.018	102.50	0.010
830828	1000	14709	0.015	0.380	0.006	7.71	0.015	179.05	0.049
831002	0950	14746	0.150	0.560	0.003<	5.56	0.008	360.00	0.990
831030	0845	14783	0.320	0.600	0.014	6.94	0.006	166.20	0.320
831127	1025	14820	0.755	0.760	0.003<	6.49	0.002<T	160.00	0.260
MAXIMUM		0.755	0.760	0.014	7.71	0.018	360.00	7.40	0.990
ARITH MEAN		0.225	0.516	0.008	6.95	0.010<A	161.21	3.96	0.263
GEOM MEAN		0.115	0.488		6.91	0.008<A	141.33	2.79	0.106
MINIMUM		0.015	0.310	0.004	5.56	0.002	73.70	0.40	0.010
STD DEV (GEOM *)		0.259	0.180		0.74	0.006<A	97.02	2.66	0.343
* SAMP IN STATISTICS		7	7	3	7	7	7	7	7
% SAMP (EXCLUDED)				57					



## 1983 WATER QUALITY DATA REGION 5

278

B.O.W./ SITE: MATTAWA RIVER  
 SAMPLE POINT: HIGHWAY 533 BRIDGE MATTAWA  
 STATION TYPE: RIVER

STATION ID: 18-6070-020-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: MATTAWA RIVER

STORET CODE: 02  
 006  
 5570

LAT: 46 19 07.55 LONG: 078 42 29.09

U T M: 17 0676450.0 5131800.0 4

REGION: 05

DISTANCE: 0.161

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FCMF FECAL COLIFORM MF CNT /100ML	FEUT IRON UNF. TOT. MG/L AS FE
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	ALUMINUM UNF. TOT. MG/L AS AL	CHLORIDE UNF. REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF. TOT. MG/L AS CU	DISOLVED OXYGEN MG/L AS O	
830320	1350	13226	0.30	0101		0.360			10.00	20<=>	
830424	1750	13322	0.30	0101		0.210		52.1	10.00	10<	0.330
830515	1835	13345	0.30	0101	13.2	0.018	2.12		10.00	10<	
830607	1820	13367		0101	14.2	0.230	2.06	56.2	0.083	10<=>	0.320
830704	1800	13389	0.30	0101	22.5	0.190	1.57	70.9	0.130	8.00	0.207
830807	1815	13411	0.30	0101	21.2	0.150	1.78	73.0	0.003	7.00	0.210
830905	1820	13433	0.30	0101	21.7	0.120	1.63	71.1	0.005	7.00	0.170
831006	1750	13449	0.30	0101	16.8	0.049	1.97	57.7	0.001	8.00	0.195
831103	1530	13465	0.30	0101	17.2	0.240	1.77	65.2	0.002	8.00	0.355
831201	1500	13481	0.30	0101	14.6		2.23	59.2		7.00	0.205
		MAXIMUM	0.30		22.5	0.360	2.23	73.0	0.130	10.00	0.355
		ARITH MEAN	0.30		17.7	0.174	1.89	63.2	0.026	8.33	0.249
		GEOM MEAN			17.3	0.133	1.88	62.7	0.006	8.24	0.240
		MINIMUM	0.30		13.2	0.018	1.57	52.1	0.001	7.00	0.170
		STD DEV (GEOM *)			3.7	0.104	0.24	7.9	0.047	1.32	0.073
		* SAMP IN STATISTICS	9		8	9	8	8	9	9	8
		% SAMP (EXCLUDED)								33	
*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR NH3-N TOTAL	PBUT	PH	PHNOL	PP04FR	PPUT	RSP
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	NICKEL UNF. TOT. MG/L AS NI	LEAD FIL. REAC MG/L AS N	PH	PHENOLS UNF-REAC UG/L PHENOL	P04 FIL. REAC MG/L AS P	PHOSPHOR UNF. TOT. MG/L AS P	RESIDUE PARTIC. MG/L
830320	1350	13226	6	1.0	0.003	0.002<T		2.6	0.003	0.019	
830424	1750	13322	6	7.0	0.002<	0.036	7.21	1.4	0.0030	0.018	4.520
830515	1835	13345	6	10.0	0.002<		6.92	1.2		0.016	4.100
830607	1820	13367			0.002<	0.092	6.95	0.6<T	0.0750	0.097	6.440
830704	1800	13389	6	23.0	0.002	0.110	7.08	1.2	0.1550	0.184	2.140
830807	1815	13411	6	16.0	0.002<	0.148	6.65	0.4<T	0.0040	0.018	2.780
830905	1820	13433	6	17.0	0.002<	0.144	7.28	0.2<W	0.0005<T	0.012	2.570
831006	1750	13449	6	4.0	0.002<	0.038	7.05	0.6<T	0.0015<T	0.020	1.320
831103	1530	13465	6	7.0	0.002<	0.158	7.05	0.2<T	0.0010<T	0.017	1.500
831201	1500	13481	6			0.078	7.10		0.0010<T	0.018	1.760

(CONTD)

## 1983 WATER QUALITY DATA REGION 5

279

B.O.W./ SITE: MATTAWA RIVER  
 SAMPLE POINT: HIGHWAY 533 BRIDGE MATTAWA  
 STATION TYPE: RIVER

STATION ID: 18-6070-020-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: MATTAWA RIVER

STORET CODE: 02  
 006  
 5570

LAT: 46 19 07.55 LONG: 078 42 29.09 U T M: 17 0676450.0 5131800.0 4 REGION: 05 DISTANCE: 0.161

*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR NH3-N TOTAL	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	NICKEL UNF.TOT. MG/L AS NI	LEAD UNF.TOT. MG/L AS PB	PH	PHENOLS UNF-REAC UG/L PHENOL	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	
		MAXIMUM		23.0	0.003	0.158	0.004	7.28	2.6	0.1550	0.184	6.440
		ARITH MEAN		10.6	0.002	0.090<A	0.004	7.03	0.9<A	0.027 <A	0.042	3.014
		GEOM MEAN		7.7		0.058<A		7.03	0.7<A	0.004 <A	0.026	2.646
		MINIMUM		1.0	0.002	0.002	0.004	6.65	0.2	0.0005	0.012	1.320
		STD DEV (GEOM *)		7.4		0.056<A		0.18	0.8<A	0.054 <A	0.056	1.693
		# SAMP IN STATISTICS		8	2	9	1	9	9	10	9	
		% SAMP (EXCLUDED)			77		88					

*=INTERIM TEST-NAME:		TCMF COLIFORM TOTAL MF CNT /100ML	TCMFBK COLIFORM TOTAL MF BCKGRD CNT /100ML	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN	
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER				
830320	1350	13226	480	2120	0.012	
830424	1750	13322	60<=>	80<=>	0.007	
830515	1835	13345	210	1100	0.001<	
830607	1820	13367	1300	3800	0.010	
830704	1800	13389	1500<=>	50000	0.009	
830807	1815	13411	430000	2200000	6.000	
830905	1820	13433	3500	6300	0.006	
831006	1750	13449		1.10	0.005	
831103	1530	13465	500<=>	4100	0.004	
831201	1500	13481	40<=>	280	2.30	
		MAXIMUM	430000	2200000	1580.00	6.000
		ARITH MEAN	48621	251975	199.97	0.757
		GEOM MEAN	891	4355	5.74	
		MINIMUM	40	80	1.10	0.004
		STD DEV (GEOM *)	16*	20*	557.62	
		# SAMP IN STATISTICS	9	9	8	8
		% SAMP (EXCLUDED)			11	



## 1983 WATER QUALITY DATA REGION 5

280

B.O.W./ SITE: KAIBUSKONG RIVER  
 SAMPLE POINT: AT DAM IN BONDFIELD  
 STATION TYPE: RIVER

STATION ID: 18-6070-090-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: MATTAWA RIVER

STORET CODE: 02  
 006  
 5570

LAT: 45 19 57.49 LONG: 079 10 41.82

U T M: 17 0642750.0 5021300.0 4

REGION: 05

DISTANCE: 35.727

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
				ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
SAMPLE DATE	HOUR	SAMPLE NUMBER	SAMPLE DEPTH	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	STREAM
YYMMDD	LMT		M	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	COND.
				AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	
830320	1300	13225	0.30	0101				0.003	9.00		6
830424	1720	13321	0.30	0101	17.7	6.80	73.4	0.002	11.00	0.180	6
830515	1800	13344	0.30	0101	18.8	20.40		0.002	9.00		6
830607	1740	13366		0101	32.3	2.55	57.5	0.001		0.195	
830704	1740	13388	0.30	0101	23.0	2.65	67.0	0.007	10.00	0.495	6
830807	1740	13410	0.30	0101	31.8	2.000	139.0	0.011	6.00	3.100	6
830905	1800	13432	0.30	0101	22.4	3.06	69.7	0.006	10.00	0.235	6
831006	1700	13448	0.30	0101	18.8	2.96	65.0	0.001	10.00	0.430	6
831103	1455	13464	0.30	0101	17.6		66.9	0.002	9.00	0.140	6
831201	1425	13480	0.30	0101	19.7		61.2		8.00	0.125	6
MAXIMUM		0.30		32.3	2.000	20.40	139.0	0.011	11.00	3.100	
ARITH MEAN		0.30		22.5	2.000	8.10	75.0	0.004	9.11	0.612	
GEOM MEAN				21.9		5.52	72.1	0.003	8.99	0.314	
MINIMUM		0.30		17.6	2.000	2.55	57.5	0.001	6.00	0.125	
STD DEV (GEOM *)				5.8		7.85	26.3	0.003	1.45	1.014	
# SAMP IN STATISTICS		9		9	1	7	8	9	9	8	
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP
			NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		P04	PHOSPHOR	
SAMPLE DATE	HOUR	SAMPLE NUMBER	WATER TEMP	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.	FIL.REAC	UNF.TOT.	RESIDUE
YYMMDD	LMT		DEG.C	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	PARTIC.
				AS NI	AS N	AS N	AS N	AS PB	AS P	AS P	MG/L
830320	1300	13225	7.0	0.002<	0.002<T	0.218	0.360	0.003<	0.010	0.029	
830424	1720	13321	9.0	0.002<	0.008	0.085	0.310	0.003<	0.0030	0.017	3.990
830515	1800	13344	15.0	0.002<			0.320	0.003<		0.016	3.330
830607	1740	13366		0.002<	0.014	0.065	0.370	0.003<	0.0045	0.033	4.620
830704	1740	13388	24.0	0.002<	0.058	0.090	0.540	0.003	0.0520	0.094	11.000
830807	1740	13410	14.0	0.004	0.026	0.110	0.520	0.005	0.0130	0.070	50.500
830905	1800	13432	19.0	0.004	0.066	0.010<T	0.470	0.003<	0.0025<T	0.019	2.970
831006	1700	13448	9.0	0.002<	0.052	0.035	0.480	0.003<	0.0060	0.028	6.150
831103	1455	13464	9.0	0.002<		0.015	0.330	0.003<		0.015	
831201	1425	13480				0.010<T	0.580			0.021	
MAXIMUM		24.0	0.004	0.066	0.218	0.580	0.005	7.92	0.0520	0.094	50.500
ARITH MEAN		13.2	0.004	0.032<A	0.071<A	0.428	0.004	7.35	0.013 <A	0.034	11.794
GEOM MEAN		12.2		0.020<A	0.044<A	0.417		7.34	0.008 <A	0.028	6.726
MINIMUM		7.0	0.004	0.002	0.010	0.310	0.003	7.02	0.0025	0.015	2.970
STD DEV (GEOM *)		5.9		0.026<A	0.067<A	0.101		0.25	0.018 <A	0.027	17.284
# SAMP IN STATISTICS		8	2	7	9	10	2	9	7	10	7
% SAMP (EXCLUDED)			77				77				

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

281

B.O.W./ SITE: KAIBUSKONG RIVER  
 SAMPLE POINT: AT DAM IN BONDFIELD  
 STATION TYPE: RIVER

STATION ID: 18-6070-090-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: MATTANA RIVER

STORET CODE: 02  
 006  
 5570

LAT: 45 19 57.49 LONG: 079 10 41.82 U T M: 17 0642750.0 5021300.0 4 REGION: 05 DISTANCE: 35.727

*=INTERIM TEST-NAME:		SS04UR	TURB	ZNUT
		SULPHATE		ZINC
SAMPLE		UNF.REAC		UNF.TOT.
DATE	HOUR	MG/L	TURB*ITY	MG/L
YYMMDD	LMT	AS S04	FTU	AS ZN
830320	1300	13225		0.012
830424	1720	13321	7.06	0.011
830515	1800	13344		0.001<
830607	1740	13366	7.60	0.003
830704	1740	13388	6.64	0.007
830807	1740	13410	6.98	0.015
830905	1800	13432	6.82	0.011
831006	1700	13448	7.44	0.006
831103	1455	13464	7.80	0.006
831201	1425	13480	2.00	
MAXIMUM		7.80	51.00	0.015
ARITH MEAN		7.19	8.71	0.009
GEOM MEAN		7.18	3.63	
MINIMUM		6.64	1.50	0.003
STD DEV (GEOM *)		0.43	17.11	
# SAMP IN STATISTICS		7	8	8
% SAMP (EXCLUDED)				11

## 1983 WATER QUALITY DATA REGION 5

282

B.O.W./ SITE: FOUR MILE CREEK  
 SAMPLE POINT: FOUR MILE CREEK AT MOUTH  
 STATION TYPE: RIVER

STATION ID: 18-6070-100-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: MATTAWA RIVER

STORET CODE: 02  
 006  
 5570

LAT: 46 20 07.74 LONG: 079 20 10.51 U T M: 17 0628050.0 5132450.0 4 REGION: 05 DISTANCE: 14.805

*=INTERIM TEST-NAME:		FWSADP	FWDPTS	FGPROJ	ALKT	CDUT	COND25	CUUT	DO	FEUT	FWPH
SAMPLE		SAMPLE	WATER	PROJECT	ALK	CADMIUM	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HR	DEPTH	DEPTH	SUB-PROJ	TOTAL	UNF.TOT.	25C	UNF.TOT.	OXYGEN	UNF.TOT.	PH
YYMMDD	LMT	NUMBER	M	CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	FIELD
					AS CAC03	AS CD	AT 25 C	AS CU	AS O	AS FE	
830320	1530	13228	0.30	0101					9.00		
830424	1915	13324	0.30	0101	7.1	0.0004	50.5	0.003	8.00	0.305	
830515	1245	13335	0.30	0101	7.5	0.0002<		0.001<	10.00		
830607	1230	13357		0101	9.5	0.0005	58.2	0.004		0.385	
830704	1230	13379	0.30	0101	15.4	0.0002	86.4	0.007	9.00	0.706	
830807	1240	13401	0.30	0101	19.2	0.0006	101.0	0.002	8.00	0.550	
830905	1300	13423	0.30	0101	21.9	0.0007	104.7	0.011	9.00	0.485	
831006	1155	13440	0.30	0101	7.2	0.0004	48.8	0.006	9.00	0.615	
831103	1100	13456	0.03	0101	12.9	0.0002	70.8	0.001	5.00	0.335	8.00
831201	1030	13472	0.30	0101	10.6	0.0002<	54.7	0.001	9.00	0.380	
		MAXIMUM	0.30		21.9	0.0007	104.7	0.011	10.00	0.706	8.00
		ARITH MEAN	0.30		12.4	0.0004	71.9	0.004	8.44	0.470	8.00
		GEOM MEAN			11.4		68.9		8.31	0.452	
		MINIMUM	0.30		7.1	0.0002	48.8	0.001	5.00	0.305	8.00
		STD DEV (GEOM *)			5.4		22.7		1.42	0.143	
		# SAMP IN STATISTICS	8		9	7	8	8	9	8	1
		% SAMP (EXCLUDED)				22		11			

*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB
SAMPLE			WATER	NICKEL	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR	SULPHATE	
DATE	HR	STREAM	TEMP	UNF.TOT.	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.	UNF.REAC	TURB'ITY
YYMMDD	LMT	COND.	DEG.C	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	FTU
				AS NI	AS N	AS N	AS PB	PH	AS P	AS S04	
830320	1530	13228	6								
830424	1915	13324	6		0.215	0.310	0.003<	7.12	0.020	8.70	2.80
830515	1245	13335	6	0.002<		0.280	0.003<	6.74	0.017		
830607	1230	13357		0.002<	0.195	0.310	0.003<	7.12	0.013	9.64	3.70
830704	1230	13379	6	0.002	0.380	0.460	0.003<	7.10	0.040	10.66	1.80
830807	1240	13401	6	0.002<	0.375	0.300	0.003<	7.13	0.015	12.07	1.50
830905	1300	13423	6	0.003	0.385	0.310	0.012	7.20	0.009	12.88	1.60
831006	1155	13440	6	0.003	0.115	1.810	0.003<	6.76	0.135	8.93	4.50
831103	1100	13456	6	0.002<	0.285	0.240	0.003	7.03	0.007	10.81	1.90
831201	1030	13472	6	0.002	0.210	0.440	0.003<	6.92	0.014	9.94	1.80
		MAXIMUM		21.0	0.003	0.385	0.012	7.20	0.135	12.88	4.50
		ARITH MEAN		12.0	0.002	0.270	0.007	7.01	0.030	10.45	2.45
		GEOM MEAN		9.4		0.251	0.392	7.01	0.019	10.37	2.26
		MINIMUM		2.0	0.002	0.115	0.003	6.74	0.007	8.70	1.50
		STD DEV (GEOM *)		7.4		0.102	0.498	0.17	0.041	1.46	1.11
		# SAMP IN STATISTICS	7	5	8	9	2	9	9	8	8
		% SAMP (EXCLUDED)		44			77				

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

283

B.O.W./ SITE: FOUR MILE CREEK  
SAMPLE POINT: FOUR MILE CREEK AT MOUTH  
STATION TYPE: RIVER

STATION ID: 18-6070-100-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: OTTAWA RIVER  
TERM STREAM: MATTAWA RIVER

STORET CODE: 02  
006  
5570

LAT: 46 20 07.74 LONG: 079 20 10.51 U T M: 17 0628050.0 5132450.0 4 REGION: 05 DISTANCE: 14.805

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830424	1915	13324	0.068
830515	1245	13335	0.001<
830607	1230	13357	0.110
830704	1230	13379	0.130
830807	1240	13401	0.130
830905	1300	13423	0.220
831006	1155	13440	0.068
831103	1100	13456	0.092
831201	1030	13472	0.067

MAXIMUM 0.220  
ARITH MEAN 0.111  
GEOM MEAN  
MINIMUM 0.067  
STD DEV (GEOM \*)  
# SAMP IN STATISTICS 8  
% SAMP (EXCLUDED) 11

## 284

STORET CODE: 02  
006  
6450

**DISTANCE: 106.697**

*INTERIM		TEST-NAME:	NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	SSO4UR	TURB	ZNUT
			NICKEL	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC
SAMPLE			UNF. TOT.	FIL. REAC	UNF. REAC	UNF. TOT.		UNF. TOT.	UNF. REAC		UNF. TOT.
DATE	HOURL	SAMPLE	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	TURB'ITY	MG/L
YYMMDD	LMT	NUMBER	AS NI	AS N	AS N	AS PB	PH	AS P	AS SO4	FTU	AS ZN
830124	1545	13002	0.003	0.070	0.520	0.003<	8.22	0.052	28.50	3.20	0.001<
830428	1045	13022	0.003	0.125	0.290	0.003<	7.90	0.041	17.49	1.60	0.002
830525	1530	13042	0.003	0.030	0.460	0.003<	7.63	0.070	23.41	2.60	0.001
830626	1220	13062	0.003	0.025	0.530	0.003<	7.49	0.102	22.62	1.00	0.001<
830724	1420	13082	0.002	0.050	0.970	0.003<	7.42	0.038	20.24	2.20	0.007
830829	1635	13102	0.002	0.015	0.360	0.003<	7.68	0.041	24.34	0.48	0.001<
*830920	1145	13122	0.003	0.025	0.360	0.003<	7.71	0.036	23.81	1.20	0.002
831017	1015	13142	0.004			0.003<					0.003
831114	1445	13162	0.002	0.040	0.360	0.003<	8.00	0.470	26.65	2.40	0.001<
831212	1135	13182	0.004	0.045	0.400	0.003<	7.87	0.074	25.79	3.50	0.011

MAXIMUM	0.004	0.125	0.970	8.22	0.470	28.50	3.50	0.011
ARITH MEAN	0.003	0.047	0.472	7.77	0.103	23.65	2.02	0.004
GEOM MEAN	0.003	0.039	0.444	7.77	0.068	23.43	1.73	
MINIMUM	0.002	0.015	0.290	7.42	0.036	17.49	0.48	0.001
STD DEV (GEOM *)	0.001	0.033	0.203	0.25	0.139	3.32	1.02	
# SAMP IN STATISTICS	10	9	9	9	9	9	9	6
% SAMP (EXCLUDED)								40

## 1983 WATER QUALITY DATA REGION 5

285

B.O.W./ SITE: GIROUX LAKE  
 SAMPLE POINT: AT GLEN LAKE OUTLET  
 STATION TYPE: LAKE

STATION ID: 18-6975-004-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: MONTREAL RIVER

STORET CODE: 02  
 006  
 6450

LAT: 47 22 11.30 LONG: 079 40 10.41

U T M: 17 0600450.0 5246900.0 4

REGION: 05

DISTANCE: 108.950

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	ALKT	ASUT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP
SAMPLE		SAMPLE	PROJECT	ALK	ARSENIC	CONDUCT.	COPPER	DISOLVED	IRON		
DATE	HR	NUMBER	SUB-PROJ	TOTAL	UNF.TOT.	25C	UNF.TOT.	OXYGEN	UNF.TOT.	STREAM	WATER
YYMMDD	LMT		CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	COND.	TEMP
				AS CACO3	AS AS	AT 25 C	AS CU	AS O	AS FE		DEG.C
830124	1600	13003	0101	172.2	1.100	439.0	0.011	9.00	0.245	4	
830428	1055	13023	0101	113.0	0.513	278.0	0.005	9.00	0.385	3	4.0
830525	1545	13043	0101	135.8	0.957	327.0	0.005	8.00	0.230	8	14.0
830626	1240	13063	0101	142.2	0.040	355.0	0.004	7.00	0.081	8	20.0
830724	1440	13083	0101	113.9	1.260	298.0	0.008	8.00	0.170	8	22.0
830829	1645	13103	0101	124.1	1.240	292.0	0.003	6.00	0.055	8	22.0
830920	1200	13123	0101	123.9	1.020	277.0	0.002	7.00	0.065	8	16.0
831017	1030	13143	0101		1.040		0.002	9.00		8	7.0
831114	1455	13163	0101	125.0	0.780	336.0	0.002	11.00	0.185	4	1.0
831212	1150	13183	0101	130.1	1.160	356.0	0.001<	8.00	0.220	4	
		MAXIMUM	0.30	172.2	1.260	439.0	0.011	11.00	0.385		22.0
		ARITH MEAN	0.30	131.1	0.911	328.7	0.005	8.20	0.182		13.2
		GEOM MEAN		130.1	0.710	325.3		8.09	0.152		9.4
		MINIMUM	0.30	113.0	0.040	277.0	0.002	6.00	0.055		1.0
		STD DEV (GEOM *)		18.0	0.379	51.5		1.40	0.106		8.3
		# SAMP IN STATISTICS	10	9	10	9	9	10	9		8
		% SAMP (EXCLUDED)					10				

*=INTERIM	TEST-NAME:	NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	SSO4UR	TURB	ZNUT	
SAMPLE		NICKEL	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC	
DATE	HR	UNF.TOT.	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.	UNF.REAC		UNF.TOT.	
YYMMDD	LMT	MG/L	MG/L	MG/L	MG/L	PH	MG/L	MG/L	TURB'ITY	MG/L	
		AS NI	AS N	AS N	AS PB		AS P	AS SO4	FTU	AS ZN	
830124	1600	13003	0.015	1.350	0.440	0.003	8.27	0.057	44.96	3.00	0.013
830428	1055	13023	0.011	0.670	0.230	0.004	7.97	0.092	22.79	6.80	0.008
830525	1545	13043	0.015	0.545	0.170	0.004	7.98	0.092	28.20	2.20	0.003
830626	1240	13063	0.006	0.090	0.330	0.003<	7.94	0.155	33.58	1.10	0.001
830724	1440	13083	0.008	0.200	0.270	0.003<	7.63	0.190	31.63	8.50	0.006
830829	1645	13103	0.004	0.090	0.320	0.003<	7.65	0.190	30.15	1.30	0.001
830920	1200	13123	0.004	0.095	0.390	0.003<	7.83	0.075	28.75	1.10	0.002
831017	1030	13143	0.009			0.003<					0.003
831114	1455	13163	0.014	0.505	0.620	0.003<	7.94	0.055	36.49	3.80	0.002
831212	1150	13183	0.020	0.500	0.790	0.003<	7.83	0.175	30.82	15.60	0.008
		MAXIMUM	0.020	1.350	0.790	0.004	8.27	0.190	44.96	15.60	0.013
		ARITH MEAN	0.011	0.449	0.396	0.004	7.89	0.120	31.93	4.82	0.005
		GEOM MEAN	0.009	0.299	0.357		7.89	0.108	31.43	3.20	0.003
		MINIMUM	0.004	0.090	0.170	0.003	7.63	0.055	22.79	1.10	0.001
		STD DEV (GEOM *)	0.005	0.406	0.197		0.19	0.057	6.18	4.81	0.004
		# SAMP IN STATISTICS	10	9	9	3	9	9	9	9	10
		% SAMP (EXCLUDED)				70					

## 1983 WATER QUALITY DATA REGION 5

286

B.O.W./ SITE: FARR CREEK  
 SAMPLE POINT: DOWNSTREAM FROM CROSSWISE LAKE  
 STATION TYPE: RIVER FLOW GAUGE FED 02JE018

STATION ID: 18-7370-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: FARR CREEK

STORET CODE: 02  
 006  
 6870

LAT: 47 25 30.59 LONG: 079 37 58.90 U T M: 17 0603100.0 5253100.0 4 REGION: 05 DISTANCE: 5.472

*INTERIM TEST-NAME:		FWSADP	FGPROJ	AGUT	ALKT	ASUT	CLIDUR	COND25	CUUT	DO	FEUT
				SILVER	ALK	ARSENIC	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON
SAMPLE		SAMPLE	PROJECT	UNF.TOT.	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.
DATE	HR	DEPTH	SUB-PROJ	MG/L	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L
YYMMDD	LMT	M	CODE	AS AG	AS CAC03	AS AS	AS CL-	AT 25 C	AS CU	AS O	AS FE
830124	1625	13005	0101	0.0050<	105.2	0.510	12.40	296.0	0.014	7.00	0.610
830428	1120	13025	0101	0.0050<	86.4	0.510	7.04	222.0	0.012	11.00	1.030
830525		13045	0101	0.0050<	89.4	0.502	8.90	230.0	0.009	12.00	0.260
830626	1300	13065	0101	0.0050<	92.3	0.016	18.50	271.0	0.006	9.00	0.678
830724	1500	13085	0101	0.0050<	87.7	0.642	15.50	244.0	0.007	10.00	0.225
830829	1705	13105	0101	0.0050<	104.4	1.100	32.00	336.0	0.006	7.00	0.215
830920	1220	13125	0101	0.0050<	128.0	0.771	40.80	411.0	0.005	9.00	0.145
831017	1050	13145	0101	0.0050<	117.9	0.906	25.84	382.0	0.007	9.00	0.365
831114	1520	13165	0101	0.0050<	128.8	0.578	24.72	388.0	0.005	11.00	0.375
831212	1215	13185	0101	0.0050<	104.3	0.318	14.27	300.0	0.007	10.00	0.175
MAXIMUM		0.30			128.8	1.100	40.80	411.0	0.014	12.00	1.030
ARITH MEAN		0.30			104.4	0.585	20.00	308.0	0.008	9.50	0.408
GEOM MEAN					103.4	0.424	17.47	301.2	0.007	9.36	0.336
MINIMUM		0.30			86.4	0.016	7.04	222.0	0.005	7.00	0.145
STD DEV (GEOM *)					16.0	0.302	10.74	68.7	0.003	1.65	0.283
# SAMP IN STATISTICS		10			10	10	10	10	10	10	10
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR
					NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		PO4
SAMPLE		STREAM		WATER	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC
DATE	HR	FLOW	STREAM	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
YYMMDD	LMT	M3	COND.	DEG.C	AS NI	AS N	AS N	AS N	AS PB	PH	AS P
830124	1625	13005	0.185	4	0.038	0.008	0.950	0.570	0.011	8.00	0.1050
830428	1120	13025	2.370	3	0.029	0.004<T	0.295	0.370	0.009	7.88	0.0680
830525		13045	1.700	8	0.018	0.044	0.110	0.320	0.003<	8.25	0.0650
830626	1300	13065	0.379	8	0.017	0.068	0.015	0.570	0.004	7.92	0.0880
830724	1500	13085	0.636	8	0.018	0.036	0.040	0.410	0.003	8.57	0.1040
830829	1705	13105	0.141	8	0.018	0.072	0.020	0.610	0.003<	8.20	0.2150
830920	1220	13125	0.123	7	0.026	0.068	0.090	0.700	0.003<	8.05	0.1410
831017	1050	13145	0.279	8	0.037	0.062	0.645	0.690	0.003	7.80	0.1750
831114	1520	13165	0.330	4	0.036	0.348	0.595	0.860	0.004	8.00	0.130
831212	1215	13185		4	0.028	0.010	0.575	0.500	0.003	8.02	0.0600
MAXIMUM		2.370		23.0	0.038	0.348	0.950	0.860	0.011	8.57	0.2150
ARITH MEAN		0.683		12.2	0.026	0.072<A	0.333	0.560	0.005	8.07	0.115
GEOM MEAN		0.404		7.7	0.025	0.036<A	0.154	0.537		8.07	0.106
MINIMUM		0.123		1.0	0.017	0.004	0.015	0.320	0.003	7.80	0.0600
STD DEV (GEOM *)		0.800		8.7	0.008	0.101<A	0.333	0.166		0.22	0.051
# SAMP IN STATISTICS		9		9	10	10	10	10	7	10	10
% SAMP (EXCLUDED)									30		

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

287

B.O.W./ SITE: FARR CREEK  
 SAMPLE POINT: DOWNSTREAM FROM CROSSWISE LAKE  
 STATION TYPE: RIVER FLOW GAUGE FED 02JE018

STATION ID: 18-7370-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: FARR CREEK

STORET CODE: 02  
 006  
 6870

LAT: 47 25 30.59 LONG: 079 37 58.90

U T M: 17 0603100.0 5253100.0 4

REGION: 05

DISTANCE: 5.472

*INTERIM TEST-NAME:		PPUT	RSP	SS04UR	TURB	ZNUT	
		PHOSPHOR		SULPHATE		ZINC	
		UNF.TOT.	RESIDUE	UNF.REAC		UNF.TOT.	
SAMPLE		MG/L	PARTIC.	MG/L	TURB'ITY	MG/L	
DATE	HR	AS P	MG/L	AS SO4	FTU	AS ZN	
YYMMDD	LMT	NUMBER					
830124	1625	13005	0.181	9.350	25.07	4.40	0.044
830428	1120	13025	0.162	12.700	14.95	9.00	0.019
830525		13045	0.114	5.040	15.64	1.90	0.006
830626	1300	13065	0.175	13.000	18.21	4.10	0.010
830724	1500	13085	0.164	64.000	18.56	3.00	0.005
830829	1705	13105	0.305	4.150	32.04	3.10	0.003
830920	1220	13125	0.162	7.080	38.38	1.50	0.004
831017	1050	13145	0.315	20.800	41.46	6.40	0.010
831114	1520	13165	0.190	5.930	34.81	4.80	0.015
831212	1215	13185	0.111	4.440	25.06	2.50	0.055
MAXIMUM		0.315	64.000	41.46	9.00	0.055	
ARITH MEAN		0.188	14.649	26.42	4.07	0.017	
GEOM MEAN		0.178	9.781	24.80	3.56	0.011	
MINIMUM		0.111	4.150	14.95	1.50	0.003	
STD DEV (GEOM *)		0.069	18.099	9.73	2.27	0.018	
# SAMP IN STATISTICS		10	10	10	10	10	
% SAMP (EXCLUDED)							



## 1983 WATER QUALITY DATA REGION 5

288

B.O.W./ SITE: COBALT LAKE  
 SAMPLE POINT: AT OUTLET, COBALT  
 STATION TYPE: LAKE

STATION ID: 18-7370-002-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: FARR CREEK

STORET CODE: 02  
 006  
 6870

LAT: 47 23 40.96 LONG: 079 41 00.63 U T M: 17 0599350.0 5249650.0 4 REGION: 05 DISTANCE: 9.495

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ASUT	COND25	CUUT	DO	FEUT	FWSTRC	FWTEMP
SAMPLE		SAMPLE	PROJECT	ALK	ARSENIC	CONDUCT.	COPPER	DISOLVED	IRON		
DATE	HR	DEPTH	SUB-PROJ	TOTAL	UNF.TOT.	25C	UNF.TOT.	OXYGEN	UNF.TOT.	STREAM	WATER
YYMMDD	LMT	NUMBER	CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	COND.	TEMP
				AS CAC03	AS AS	AT 25 C	AS CU	AS O	AS FE		DEG.C
830124	1615	13004	0101	151.3	1.700	430.0	0.011	6.00	0.055	4	
830428	1110	13024	0101	109.2	0.549	285.0	0.006	7.00	0.075	3	3.0
830525		13044	0101	134.6	0.900	380.0	0.008	11.00	0.145	8	14.0
830626	1250	13064	0101	127.5	0.025	360.0	0.016	10.00	0.108	8	21.0
830724	1450	13084	0101	128.9	1.150	361.0	0.007	9.00	0.095	8	22.0
830829	1655	13104	0101	118.2	1.330	340.0	0.004	12.00	0.215	8	23.0
830920	1210	13124	0101	122.1	1.340	327.0	0.004	8.00	0.225	8	16.0
831017	1040	13144	0101	128.0	1.270	374.0	0.006	8.00	0.110	8	9.0
831114	1510	13164	0101	134.0	1.150	392.0	0.003	11.00	0.110	4	1.0
831212	1205	13184	0101	139.9	1.140	422.0	0.005	10.00	0.425	4	1.0
		MAXIMUM	0.30	151.3	1.700	430.0	0.016	12.00	0.425		23.0
		ARITH MEAN	0.30	129.4	1.055	367.1	0.007	9.20	0.156		12.2
		GEOM MEAN		128.9	0.768	364.7	0.006	9.01	0.131		7.4
		MINIMUM	0.30	109.2	0.025	285.0	0.003	6.00	0.055		1.0
		STD DEV (GEOM *)		11.7	0.470	43.4	0.004	1.93	0.109		9.0
		# SAMP IN STATISTICS	10	10	10	10	10	10	10		9
		% SAMP (EXCLUDED)									

*INTERIM TEST-NAME:		NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT	
SAMPLE		NICKEL	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC	
DATE	HR	UNF.TOT.	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.	UNF.REAC	TURB'ITY	UNF.TOT.	
YYMMDD	LMT	MG/L	MG/L	MG/L	MG/L	PH	MG/L	MG/L	FTU	MG/L	
		AS NI	AS N	AS N	AS PB		AS P	AS S04		AS ZN	
830124	1615	13004	0.034	0.100	0.320	0.008	8.29	0.145	25.44	0.88	0.016
830428	1110	13024	0.026	0.140	0.240	0.003<	7.77	0.130	16.91	1.00	0.018
830525		13044	0.036	0.010<T	0.490	0.003<	8.28	0.111	21.00	0.40	0.010
830626	1250	13064	0.021	0.005<T	0.300	0.003<	8.57	0.190	21.34	1.00	0.003
830724	1450	13084	0.019	0.005<T	0.240	0.003<	8.35	0.183	19.98	5.90	0.014
830829	1655	13104	0.011	0.005<W	0.320	0.003<	8.28	0.205	19.95	1.60	0.001<
830920	1210	13124	0.017	0.015	0.300	0.003<	8.00	0.173	18.34	2.70	0.005
831017	1040	13144	0.023	0.010<T	0.350	0.003<	8.08	0.375	20.00	2.70	0.006
831114	1510	13164	0.033	0.015	0.330	0.003<	8.23	0.145	20.72	5.30	0.004
831212	1205	13184	0.032	0.035	0.310	0.003<	8.10	0.130	22.31	1.30	0.006
		MAXIMUM	0.036	0.140	0.490	0.008	8.57	0.375	25.44	5.90	0.018
		ARITH MEAN	0.025	0.034<A	0.328	0.008	8.19	0.179	20.60	2.28	0.009
		GEOM MEAN	0.024	0.016<A	0.321		8.19	0.168	20.49	1.67	
		MINIMUM	0.011	0.005	0.240	0.008	7.77	0.111	16.91	0.40	0.003
		STD DEV (GEOM *)	0.008	0.047<A	0.072		0.22	0.075	2.28	1.91	
		# SAMP IN STATISTICS	10	10	10	1	10	10	10	10	9
		% SAMP (EXCLUDED)				90					10

## 289

**STORET CODE: 02**  
**006**  
**6870**

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: OTTAWA RIVER  
TERM STREAM: FARR CREEK

[illegible][illegible]

## 1983 WATER QUALITY DATA REGION 5

290

B.O.W./ SITE: WABI CREEK  
 SAMPLE POINT: HIGHWAY 11 BYPASS NEAR NEW LISKEARD  
 STATION TYPE: RIVER

STATION ID: 18-7450-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: WABI CREEK

STORET CODE: 02  
 006  
 6970

LAT: 47 31 14.65 LONG: 079 41 15.59

U T M: 17 0598800.0 5263650.0 4

REGION: 05

DISTANCE: 0.644

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ASUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
				ALK	ARSENIC	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
SAMPLE		SAMPLE	PROJECT	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	
DATE	HR	DEPTH	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM
YYMMDD	LMT	NUMBER	CODE	AS CAC03	AS AS	AS CL-	AT 25 C	AS CU	AS O	AS FE	COND.
830124	1500	13000	0101	11.0	0.001<	0.92	53.6	0.006	13.00	0.510	4
830428	1010	13020	0101	94.3	0.001<	14.20	243.0	0.016	9.00	21.000	3
830525	1350	13040	0101	117.5	0.001	15.80	288	0.006	11.00	2.050	3
830626	1020	13060	0101	81.1	0.001	6.63	196.0	0.003	11.00	0.696	8
830724	1340	13080	0101	77.3	0.001	5.35	183.0	0.008	10.00	1.860	8
830829	1600	13100	0101	27.3	0.001	1.94	80.6	0.006	10.00	0.100	9
830920	1000	13120	0101	59.9	0.001	4.63	140.0	0.003	9.00	1.070	8
831017	0940	13140	0101		0.001			0.004	8.00		8
831114	1400	13160	0101	101.9	0.001<	6.79	244.0	0.002	10.00	1.210	4
831212	0945	13180	0101	26.9	0.001<	1.72	76.7	0.004	11.00	0.720	4
MAXIMUM		0.30		117.5	0.001	15.80	288	0.016	13.00	21.000	
ARITH MEAN		0.30		66.4	0.001	6.44	167	0.006	10.20	3.246	
GEOM MEAN				53.2		4.51	145	0.005	10.12	1.114	
MINIMUM		0.30		11.0	0.001	0.92	53.6	0.002	8.00	0.100	
STD DEV (GEOM *)				37.4		5.31	84	0.004	1.40	6.687	
# SAMP IN STATISTICS		10		9	6	9	9	10	10	9	
% SAMP (EXCLUDED)					40						

*=INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP
			NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		PO4	PHOSPHOR	
SAMPLE		WATER	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	RESIDUE
DATE	HR	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	PARTIC.
YYMMDD	LMT	DEG.C	AS NI	AS N	AS N	AS N	AS PB	PH	AS P	AS P	MG/L
830124	1500	13000	0.006	0.034	0.245	0.250	0.003	7.12			2.540
830428	1010	13020	3.0	0.116U	0.630	0.220	0.004	7.91			460.000
830525	1350	13040	13.0	0.002	0.010	0.215	0.003<	7.92	0.0335	0.082	42.800
830626	1020	13060	21.0	0.002<	0.170	0.010<T	0.003<	7.82	0.0530	0.054	11.300
830724	1340	13080	22.0	0.003	0.002<T	0.185	0.003<	7.98	0.0510	0.080	33.100
830829	1600	13100	25.0	0.002<	0.338	0.030	0.003<	6.97	0.0255	0.052	19.600
830920	1000	13120	15.0	0.002<	0.140	0.105	0.003<	7.75	0.0440	0.087	25.800
831017	0940	13140	8.0	0.003			0.003<				
831114	1400	13160	1.0	0.002<	0.098	0.055	0.003<	7.93	0.0430	0.082	15.600
831212	0945	13180		0.003	0.058	0.235	0.003<	7.38	0.0120	0.025	13.900
MAXIMUM		25.0	0.020	0.338	0.630	0.770	0.004	7.98	0.0530	0.087	460.000
ARITH MEAN		13.5	0.006	0.107<A	0.190<A	0.479	0.003	7.64	0.0374	0.066	69.404
GEOM MEAN		9.3		0.054<A	0.111<A	0.437		7.63	0.0340	0.061	23.334
MINIMUM		1.0	0.002	0.002	0.010	0.220	0.003	6.97	0.0120	0.025	2.540
STD DEV (GEOM *)		8.9		0.104<A	0.188<A	0.205		0.38	0.0147	0.023	146.967
# SAMP IN STATISTICS		8	6	9	9	9	2	9	7	7	9
% SAMP (EXCLUDED)			40				80				

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

291

B.O.W./ SITE: WABI CREEK  
SAMPLE POINT: HIGHWAY 11 BYPASS NEAR NEW LISKEARD  
STATION TYPE: RIVER

STATION ID: 18-7450-001-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: OTTAWA RIVER  
TERM STREAM: WABI CREEK

STORET CODE: 02  
006  
6970

LAT: 47 31 14.65 LONG: 079 41 15.59 U T M: 17 0598800.0 5263650.0 4 REGION: 05 DISTANCE: 0.644

*=INTERIM TEST-NAME:		SSO4UR	TURB	ZNUT
		SULPHATE		ZINC
SAMPLE		UNF.REAC		UNF.TOT.
DATE	HR	MG/L	TURB'ITY	MG/L
YYMMDD	LMT	AS S04	FTU	AS ZN
830124	1500	13000	9.78	6.50
830428	1010	13020	8.91	0.019
830525	1350	13040	15.27	0.042
830626	1020	13060	10.06	0.006
830724	1340	13080	9.97	14.50
830829	1600	13100	8.79	0.004
830920	1000	13120	9.67	0.008
831017	0940	13140		0.007
831114	1400	13160	17.42	0.011
831212	0945	13180	8.78	0.008
			26.00	0.014
			14.00	0.021
		MAXIMUM	17.42	36.00
		ARITH MEAN	10.96	19.57
		GEOM MEAN	10.63	17.67
		MINIMUM	8.78	6.50
		STD DEV (GEOM *)	3.14	8.90
		# SAMP IN STATISTICS	9	8
		% SAMP (EXCLUDED)		10

## 1983 WATER QUALITY DATA REGION 5

292

B.O.W./ SITE: LARDER LAKE  
 SAMPLE POINT: PUBLIC BEACH, LARDER LAKE  
 STATION TYPE: LAKE

STATION ID: 18-7710-003-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: BLANCHE RIVER

STORET CODE: 02  
 006  
 7230

LAT: 48 05 39.92 LONG: 079 42 53.15

U T M: 17 0595700.0 5327375.0 4

REGION: 05

DISTANCE: 82.074

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ASUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	ARSENIC	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HOUR	DEPTH	SUB-PROJ	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	
YYMMDD	LMT	M	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	STREAM
				AS CAC03	AS AS	AS CL-	AT 25 C	AS CU	AS O	AS FE	COND.
830124	1215	13006	0101	43.4	0.034	5.17	165.0	0.030	6.00	0.060	4
830427	2125	13026	0101	5.6	0.003	1.39	18.6	0.016	8.00	1.250	4
830525		13046	0101	37.6	0.029	4.70	141.0	0.020	9.00	0.115	3
830627	1040	13066	0101	36.6	0.019	4.20	134.0	0.018	7.00	0.081	8
830725	0920	13086	0101	39.1	0.031	4.51	139.0	0.021	9.00	0.045	8
830831	0940	13106	0101	40.1	0.031	4.67	136.0	0.019	8.00	0.060	8
830920	1435	13126	0101	42.9	0.032	4.71	133.0	0.022	8.00	0.095	8
831016	1800	13146	0101	42.8	0.035	4.66	147.0	0.020	8.00	0.105	8
831114	1300	13166	0101	40.5	0.038	4.98	144.0	0.020	11.00	0.900	8
831212	1440	13186	0101	42.7	0.032	4.98	155.0	0.022	7.00	0.035<T	4
MAXIMUM		0.30		43.4	0.038	5.17	165.0	0.030	11.00	1.250	
ARITH MEAN		0.30		37.1	0.028	4.40	131.3	0.021	8.10	0.275<A	
GEOM MEAN				33.3	0.024	4.18	116.9	0.021	8.00	0.119<A	
MINIMUM		0.30		5.6	0.003	1.39	18.6	0.016	6.00	0.035	
STD DEV (GEOM *)				11.3	0.010	1.09	40.8	0.004	1.37	0.431<A	
# SAMP IN STATISTICS		10		10	10	10	10	10	10	10	
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP
SAMPLE		WATER	NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		P04	PHOSPHOR	
DATE	HOUR	TEMP	UNF.TOT.	TOTAL	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.	FIL.REAC	UNF.TOT.	RESIDUE
YYMMDD	LMT	DEG.C	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	PARTIC.
			AS NI	AS N	AS N	AS N	AS PB	PH	AS P	AS P	MG/L
830124	1215	13006	0.068	0.010	0.590	0.300	0.006	7.85	0.004	0.004	0.980
830427	2125	13026	1.0	0.003	0.070	0.065	0.016	6.97	0.0050	0.098	27.000
830525		13046	6.0	0.037	0.030	0.485	0.320	0.003<	7.53	0.0040	2.020
830627	1040	13066	14.0	0.037	0.038	0.405	0.440	0.003<	7.61	0.0050	1.870
830725	0920	13086	20.0	0.046	0.096	0.380	0.440	0.003<	7.56	0.0045	1.900
830831	0940	13106	20.0	0.046	0.066	0.380	0.490	0.003<	7.84	0.0040	1.260
830920	1435	13126	16.0	0.046	0.040	0.410	0.400	0.003<	8.33	0.0015<T	6.500
831016	1800	13146	9.0	0.044	0.044	0.470	0.370	0.003<	8.19	0.0060	8.690
831114	1300	13166	3.0	0.048	0.026	0.480	0.350	0.003<	7.95	0.0040	1.810
831212	1440	13186		0.057	0.014	0.515	0.280	0.003<	7.46	0.0020<T	5.000
MAXIMUM		20.0	0.068	0.096	0.590	0.490	0.016	8.33	0.0060	0.098	27.000
ARITH MEAN		11.1	0.043	0.043	0.418	0.379	0.011	7.73	0.004 <A	0.021	5.703
GEOM MEAN		7.9	0.036	0.036	0.373	0.374		7.72	0.004 <A	0.014	3.227
MINIMUM		1.0	0.003	0.010	0.065	0.280	0.006	6.97	0.0015	0.004	0.980
STD DEV (GEOM *)		7.5	0.017	0.027	0.141	0.068		0.39	0.001 <A	0.028	7.913
# SAMP IN STATISTICS		8	10	10	10	10	2	10	10	10	10
% SAMP (EXCLUDED)							80				

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

293

B.O.W./ SITE: LARDER LAKE  
 SAMPLE POINT: PUBLIC BEACH, LARDER LAKE  
 STATION TYPE: LAKE

STATION ID: 18-7710-003-01

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: BLANCHE RIVER

STORET CODE: 02  
 006  
 7230

LAT: 48 05 39.92 LONG: 079 42 53.15

U T M: 17 0595700.0 5327375.0 4

REGION: 05

DISTANCE: 82.074

*INTERIM TEST-NAME:		SS04UR	TURB	ZNUT
		SULPHATE		ZINC
		UNF.REAC		UNF.TOT.
SAMPLE		MG/L	TURB'ITY	MG/L
DATE HOUR	SAMPLE			
YYMMDD LMT	NUMBER	AS S04	FTU	AS ZN
830124 1215	13006	25.39	0.91	0.033
830427 2125	13026	1.00	5.00	0.011
830525	13046	19.85	0.60	0.008
830627 1040	13066	19.89	1.50	0.008
830725 0920	13086	20.20	1.70	0.009
830831 0940	13106	21.17	0.89	0.008
830920 1435	13126	20.42	2.00	0.007
831016 1800	13146	46.26	1.70	0.009
831114 1300	13166	20.77	3.10	0.015
831212 1440	13186	22.40	1.69	0.290
MAXIMUM		46.26	5.00	0.290
ARITH MEAN		21.73	1.91	0.040
GEOM MEAN		16.89	1.60	0.015
MINIMUM		1.00	0.60	0.007
STD DEV (GEOM *)		10.84	1.29	0.088
# SAMP IN STATISTICS		10	10	10
% SAMP (EXCLUDED)				

## 1983 WATER QUALITY DATA REGION 5

294

B.O.W./ SITE: BLANCHE RIVER  
 SAMPLE POINT: HIGHWAY 112, 8 MILES SOUTH OF SWASTIKA  
 STATION TYPE: RIVER

STATION ID: 18-7710-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: BLANCHE RIVER

STORET CODE: 02  
 006  
 7230

LAT: 47 59 40.64 LONG: 080 01 05.40

U T M: 17 0573250.0 5315950.0 4

REGION: 05

DISTANCE: 85.776

*INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	CLIDUR	COND25	DO	FEUT	FWSTRC	FWTEMP	NNHTFR
SAMPLE		SAMPLE	SAMPLE	PROJECT	ALK	CHLORIDE	CONDUCT.	DISOLVED	IRON		NH3-N
DATE		DEPTH	SUB-PROJ	TOTAL	UNF.REAC	25C	OXYGEN	UNF.TOT.		WATER	TOTAL
YYMMDD LMT		H	CODE	MG/L	MG/L	UMHO/CM	MG/L	MG/L	AS FE	TEMP	FIL.REAC
				AS CAC03	AS CL-	AT 25 C	AS O			DEG.C	MG/L
											AS N
830427	2025	13029	0.30	0101		6.82	114.0	8.00		8	0.010
830525		13049	0.30	0101		6.45	117.0	10.00		3	0.024
830627	0900	13069	0.30	0101	41.7	6.93	128.0	7.00	0.253	8	0.052
830725	1150	13089	0.30		50.1	5.96	138.0	8.00	0.370	8	0.006<T
830831	1105	13109	0.30	0101		6.32	136.0	6.00		8	0.004<T
830920		13129	0.30	0101		6.43	149.0	8.00		8	0.072
831016	1655	13149	0.30	0101	44.2	3.07	113.0	8.00		8	0.034
831114	1110	13169	0.30	0101		4.98	123.7	9.00		4	0.054
831210	1335	13189	0.30	0101	45.2	6.79	142.0	11.00	0.205	4	0.012
MAXIMUM		0.30		50.1	6.93	149.0	11.00	0.370		21.0	0.072
ARITH MEAN		0.30		45.3	5.97	129.0	8.33	0.276		11.1	0.030<A
GEOM MEAN				45.2	5.82	128.4	8.21	0.268		7.8	0.020<A
MINIMUM		0.30		41.7	3.07	113.0	6.00	0.205		1.0	0.004
STD DEV (GEOM *)				3.5	1.24	13.0	1.50	0.085		7.7	0.025<A
# SAMP IN STATISTICS		9		4	9	9	9	3		8	9
% SAMP (EXCLUDED)											
*INTERIM TEST-NAME:		NNOTFR	NNTKUR	PH	PP04FR	PPUT	RSP	SS04UR	TURB		
			K'DAHL N								
SAMPLE		NO2+NO3N	TOTAL		PO4	PHOSPHOR		SULPHATE			
DATE		FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	RESIDUE	UNF.REAC			
YYMMDD LMT		MG/L	MG/L	PH	MG/L	MG/L	PARTIC.	MG/L			
		AS N	AS N		AS P	AS P	MG/L	AS S04			
830427	2025	0.390	0.625	7.40	0.0070	0.060	20.500		6.50		
830525		0.230	0.520	7.36	0.0150	0.035	9.460		5.90		
830627	0900	0.055	0.440	7.45	0.0065	0.032	9.060	10.73	5.50		
830725	1150	0.105	0.390	7.37	0.0100	0.025	14.500	9.69	5.20		
830831	1105	0.185	0.480	7.12	0.0100	0.032	8.160		5.60		
830920		0.100	0.600	7.90	0.0150	0.042	3.940		4.20		
831016	1655	0.130	0.050	7.31	0.0050	0.800	6.380	27.87	6.60		
831114	1110	0.265	0.630	7.55	0.0120	0.038	9.410		2.90		
831210	1335	0.300	0.420	7.40	0.0180	0.035	2.590	11.85	4.00		
MAXIMUM		0.390	0.630	7.90	0.0180	0.800	20.500	27.87	6.60		
ARITH MEAN		0.196	0.462	7.43	0.0109	0.122	9.333	15.03	5.16		
GEOM MEAN		0.167	0.391	7.43	0.0101	0.051	7.954	13.61	5.01		
MINIMUM		0.055	0.050	7.12	0.0050	0.025	2.590	9.69	2.90		
STD DEV (GEOM *)		0.110	0.178	0.21	0.0044	0.254	5.433	8.60	1.23		
# SAMP IN STATISTICS		9	9	9	9	9	9	4	9		
% SAMP (EXCLUDED)											

## 1983 WATER QUALITY DATA REGION 5

295

B.O.W./ SITE: MURDOCK CREEK  
 SAMPLE POINT: HIGHWAY 112, 2.5 MILES EAST OF SWASTIKA  
 STATION TYPE: RIVER

STATION ID: 18-7710-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: BLANCHE RIVER

STORET CODE: 02  
 006  
 7230

LAT: 48 06 12.06 LONG: 080 03 23.02 U T M: 17 0570250.0 5327999.0 4

REGION: 05

DISTANCE: 102.351

*=INTERIM TEST-NAME:		FMSADP	FGPROJ	CLIDUR	COND25	DO	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N TOTAL	NNTKUR K'DAHL N TOTAL	
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF. REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	DISSOLVED OXYGEN MG/L AS O	STREAM COND.	WATER TEMP DEG.C	FIL. REAC MG/L AS N	FIL. REAC MG/L AS N	UNF. REAC MG/L AS N
830124	1135	13007	0.30	0101	22.70	256.0	7.00	4		1.116	3.100	3.100
830427		13027	0.30	0101	12.60	203.0	10.00	3	3.0	0.006U	1.440	0.220
830525		13047	0.30	0101	15.40	204.0	7.00	3	7.0	0.084	1.210	1.150
830627	0925	13067	0.30	0101	26.80	273.0	5.00		15.0	0.770	2.170	1.100
830725	1120	13087	0.30	0101	47.30	377.0	6.00	7	20.0	1.350	3.170	
830831	1040	13107	0.30	0101	51.70	380.0	4.00	5	21.0	0.520	4.430	1.430
830920	1535	13127	0.30	0101	55.30	385.0	4.00	5	16.0	4.650	3.060	5.900
831016	1725	13147	0.30	0101	41.65	374.0	6.00	5	5.0	1.650	3.540	1.900
831114	1145	13167	0.30	0101	28.05	313.0	8.00	4	2.0	2.300	1.950	3.000
831210	1410	13187	0.30	0101	27.65	315.0	8.00	4		2.670	2.610	
MAXIMUM		0.30			55.30	385.0	10.00		21.0	4.650	4.430	5.900
ARITH MEAN		0.30			32.91	308.0	6.50		11.1	1.512	2.668	2.225
GEOM MEAN					29.60	299.9	6.25		8.2	0.654	2.488	1.593
MINIMUM		0.30			12.60	203.0	4.00		2.0	0.006	1.210	0.220
STD DEV (GEOM *)					15.09	71.5	1.90		7.7	1.468	0.992	1.775
# SAMP IN STATISTICS		10			10	10	10		8	10	10	8
% SAMP (EXCLUDED)												

*=INTERIM TEST-NAME:		PH	PP04FR PO4 FIL. REAC MG/L AS P	PPUT PHOSPHOR UNF. TOT. MG/L AS P	RSP RESIDUE PARTIC. MG/L	TURB TURB'ITY FTU	
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	PH	PP04FR PO4 FIL. REAC MG/L AS P	PPUT PHOSPHOR UNF. TOT. MG/L AS P	RSP RESIDUE PARTIC. MG/L	TURB TURB'ITY FTU
830124	1135	13007	7.44	0.4900	0.725	15.600	7.60
830427		13027	7.10	0.1450	0.575	189.000	100.00
830525		13047	7.00	0.1340	0.290	45.900	10.00
830627	0925	13067	6.79	0.1500	0.320	37.800	22.00
830725	1120	13087	6.88	0.3730	0.470	6.640	11.50
830831	1040	13107	6.63	0.3350	0.460	5.570	2.20
830920	1535	13127	7.04	0.3420	0.400	9.240	2.60
831016	1725	13147	6.78	0.2250	0.370	29.600	8.20
831114	1145	13167	7.19	0.2900	0.440	14.500	8.50
831210	1410	13187	7.85	0.5600	0.680	15.800	12.90
MAXIMUM		7.85	0.5600	0.725	189.000	100.00	
ARITH MEAN		7.07	0.3044	0.473	36.965	18.55	
GEOM MEAN		7.06	0.2722	0.454	20.295	9.99	
MINIMUM		6.63	0.1340	0.290	5.570	2.20	
STD DEV (GEOM *)		0.36	0.1459	0.146	55.108	29.16	
# SAMP IN STATISTICS		10	10	10	10	10	
% SAMP (EXCLUDED)							



## 1983 WATER QUALITY DATA REGION 5

296

B.O.W./ SITE: BLANCHE RIVER  
 SAMPLE POINT: AT BRIDGE ON ROSEGROVE BEACH ROAD  
 STATION TYPE: RIVER

STATION ID: 18-7710-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERN STREAM: BLANCHE RIVER

STORET CODE: 02  
 006  
 7230

LAT: 48 01 44.45 LONG: 080 04 10.15 U T M: 17 0569375.0 5319725.0 4 REGION: 05 DISTANCE: 96.719

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	CLIDUR	COND25	DO	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC	NNTKUR K'DAHL N TOTAL
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	DISSOLVED OXYGEN MG/L AS O	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N
830525	13048	0.30	0101	6.15	120.0	9.00	3	7.0	0.040	0.160	0.230
830627 0910	13068	0.30	0101	6.77	123.3	8.00	8	19.0	0.050	0.415	0.590
830725 1135	13088	0.30	0101	7.34	138.0	7.00	8	22.0	0.006<T	0.200	0.430
830831 1055	13108	0.30	0101	12.10	174.0	7.00	8	20.0	0.020	0.365	0.480
830920 1550	13128	0.30	0101	15.20	198.0	10.00	8	14.0	0.062	0.500	0.650
831016 1605	13148	0.30	0101	19.54	238.0	9.00	5	6.0	0.032	1.000	0.570
831114 1125	13168	0.30	0101	14.12	202.0	11.00	4		0.194	0.370	0.700
831210 1350	13188	0.30	0101	9.13	176.0	11.00	4		0.210	0.430	0.750
	MAXIMUM	0.30		19.54	238.0	11.00		22.0	0.210	1.000	0.750
	ARITH MEAN	0.30		11.29	171.2	9.00		14.7	0.077<A	0.430	0.550
	GEOM MEAN			10.44	166.7	8.87		13.0	0.046<A	0.374	0.521
	MINIMUM	0.30		6.15	120.0	7.00		6.0	0.006	0.160	0.230
	STD DEV (GEOM *)			4.77	41.7	1.60		6.9	0.079<A	0.257	0.167
	# SAMP IN STATISTICS	8		8	8	8		6	8	8	8
	% SAMP (EXCLUDED)										

*=INTERIM	TEST-NAME:	PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	TURB TURB'ITY FTU
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	PH	MG/L AS P	MG/L AS P	MG/L	
830525	13048	7.33	0.0150	0.060	27.600	17.00
830627 0910	13068	7.10	0.0340	0.073	20.700	12.00
830725 1135	13088	7.19	0.0365	0.062	11.300	14.50
830831 1055	13108	7.47	0.0555	0.070	10.700	10.70
830920 1550	13128	8.03	0.0360	0.059	9.210	7.70
831016 1605	13148	7.60	0.0400	0.079	22.000	7.70
831114 1125	13168	7.67	0.0215	0.047	10.000	5.10
831210 1350	13188	7.35	0.0350	0.051	5.700	7.70
	MAXIMUM	8.03	0.0555	0.079	27.600	17.00
	ARITH MEAN	7.47	0.0342	0.063	14.651	10.30
	GEOM MEAN	7.46	0.0321	0.062	12.964	9.63
	MINIMUM	7.10	0.0150	0.047	5.700	5.10
	STD DEV (GEOM *)	0.30	0.0121	0.011	7.713	4.02
	# SAMP IN STATISTICS	8	8	8	8	8
	% SAMP (EXCLUDED)					

## 1983 WATER QUALITY DATA REGION 5

297

B.O.W./ SITE: ALLIGATOR CREEK  
 SAMPLE POINT: UPSTREAM OF ENGLEHART LAGOON DISCHARGE  
 STATION TYPE: RIVER

STATION ID: 18-7710-011-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: BLANCH RIVER

STORET CODE: 02  
 006  
 7230

LAT: 47 50 20.06 LONG: 079 53 17.29

U T M: 17 0583200.0 5298775.0 4

REGION: 05

DISTANCE: 50.209

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	CLIDUR	COND25	DO	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N TOTAL	NNTKUR K'DAHL N TOTAL
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	DISSOLVED OXYGEN MG/L AS O	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N
830124 1040	13010	0.30	0101	4.36	484.0	7.00	4		0.010	0.350	0.930
830427 2010	13030	0.30	0101	1.25	177.0	5.00	3	3.0	0.012U	0.400	3.800
830525	13050	0.30	0101	4.50	219.0	6.00	3	11.0	0.010	0.210	0.080
830627 0840	13070	0.30	0101	3.48	393.0	8.00	8	14.0	0.020	0.125	0.650
830724 1945	13090	0.30	0101	3.59	402.0	7.00	8	19.0	0.006<T	0.130	0.500
830831 1120	13110	0.30	0101	2.85	414.0	8.00	8	19.0	0.022	0.050	0.490
830920 1620	13130	0.30	0101	3.00	406.0	11.00	8	15.0	0.050	0.010<T	0.625
831016 1635	13150	0.30	0101	6.56	400.0	9.00	8	5.0	0.018	0.010<T	0.440
831114 1050	13170	0.30	0101	4.88	452.0	10.00	4	1.0	0.024	0.050	0.380
831210 1315	13190	0.30	0101	5.22	432.0	11.00	4		0.050	0.155	0.420
MAXIMUM		0.30		6.56	484.0	11.00		19.0	0.050	0.400	3.800
ARITH MEAN		0.30		3.97	377.9	8.20		10.9	0.022<A	0.149<A	0.831
GEOM MEAN				3.67	362.3	7.96		7.7	0.018<A	0.084<A	0.537
MINIMUM		0.30		1.25	177.0	5.00		1.0	0.006	0.010	0.080
STD DEV (GEOM *)				1.47	99.3	2.04		7.1	0.016<A	0.136<A	1.065
# SAMP IN STATISTICS		10		10	10	10		8	10	10	10
% SAMP (EXCLUDED)											

*=INTERIM	TEST-NAME:	PH	PP04FR P04 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P	RSP RESIDUE PARTIC. MG/L	TURB TURB*ITY FTU
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	PH	AS P	AS P	MG/L	FTU
830124 1040	13010	7.96	0.0230	0.330	94.200	54.00
830427 2010	13030	7.92	0.0550	2.050	3135.00	
830525	13050	7.84	0.0420	0.160	436.000	80.00
830627 0840	13070	7.98	0.0330	0.110	79.600	83.00
830724 1945	13090	8.00	0.0175	0.060	97.700	59.00
830831 1120	13110	8.10	0.0090	0.037	16.800	15.60
830920 1620	13130	8.19	0.0070	0.065	37.400	24.00
831016 1635	13150	8.07	0.0100	0.028	14.100	21.00
831114 1050	13170	8.03	0.0070	0.021	9.430	10.70
831210 1315	13190	7.84	0.0110	0.026	9.840	3.40
MAXIMUM		8.19	0.0550	2.050	3135.00	83.00
ARITH MEAN		7.99	0.0214	0.289	393.007	38.97
GEOM MEAN		7.99	0.0165	0.087	61.880	26.31
MINIMUM		7.84	0.0070	0.021	9.430	3.40
STD DEV (GEOM *)		0.11	0.0167	0.626	971.859	30.43
# SAMP IN STATISTICS		10	10	10	10	9
% SAMP (EXCLUDED)						

## 1983 WATER QUALITY DATA REGION 5

298

B.O.W./ SITE: ALLIGATOR CREEK  
 SAMPLE POINT: 1ST.CONC.RD.D/S ENGLEHART LAGOON  
 STATION TYPE: RIVER

STATION ID: 18-7710-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: OTTAWA RIVER  
 TERM STREAM: BLANCH RIVER

STORET CODE: 02  
 006  
 7230

LAT: 47 50 36.35 LONG: 079 52 04.77 U T M: 17 0584700.0 5299300.0 4 REGION: 05 DISTANCE: 47.312

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	DO	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N TOTAL	NNTKUR K'DAHL N TOTAL	
SAMPLE DATE YYMMDD	HOUR LHT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	DISOLVED OXYGEN MG/L AS O	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N
830124	1725	13011	0.30	0101	24.50	605.0	9.00	4		0.006	2.700	0.960
830428	1250	13031	0.30	0101	3.95	189.0	7.00	3	3.0	0.016U	0.415	1.600
830525		13051	0.30	0101			8.00	3	10.0			
830627	1110	13071	0.30	0101	27.30	483.0	7.00	8	13.0	0.620	0.390	1.050
830724	2005	13091	0.30	0101	30.10	452.0	9.00	8	21.0	0.006<T	0.720	1.050
830829	1900	13111	0.30	0101	14.60	441.0	12.00	5	23.0	0.002<T	0.295	0.700
830920	1640	13131	0.30	0101	24.60	474.0		8	15.0	0.038	1.150	1.220
831016	1840	13151	0.30	0101	23.00	420.0	9.00	8	6.0	0.020	0.345	0.750
831114	1700	13171	0.30	0101	29.61	519.0	11.00	4	1.0	0.400	0.805	1.200
831212	1510	13191	0.30	0101	26.87	564.0	11.00	4	1.0	0.620	1.100	1.580
MAXIMUM			0.30		30.10	605.0	12.00		23.0	0.620	2.700	1.600
ARITH MEAN			0.30		22.73	460.8	9.22		10.3	0.192<A	0.880	1.123
GEOM MEAN					20.05	441.8	9.07		6.4	0.037<A	0.684	1.083
MINIMUM			0.30		3.95	189.0	7.00		1.0	0.062	0.295	0.700
STD DEV (GEOM *)					8.41	118.1	1.79		8.3	0.274<A	0.754	0.318
# SAMP IN STATISTICS			10		9	9	9		9	9	9	9
% SAMP (EXCLUDED)												

*INTERIM TEST-NAME:		PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	TURB TURB'ITY FTU
SAMPLE DATE YYMMDD	HOUR LHT	SAMPLE NUMBER	PH	MG/L AS P	MG/L AS P	MG/L
830124	1725	13011	7.81	0.5600	0.665	40.200
830428	1250	13031	7.89	0.0480	1.050	1745.00
830627	1110	13071	7.59	0.3850	0.460	32.200
830724	2005	13091	7.30	0.1490	0.310	0.360<T
830829	1900	13111	8.39	0.1300	0.198	28.700
830920	1640	13131	7.98	0.3060	0.470	166.000
831016	1840	13151	7.92	0.1320	0.155	44.300
831114	1700	13171	7.92	0.2800	0.347	30.900
831212	1510	13191	7.92	0.4150	0.510	39.700
MAXIMUM			8.39	0.5600	1.050	1745.00
ARITH MEAN			7.86	0.2672	0.463	236.373<A
GEOM MEAN			7.85	0.2140	0.399	39.037<A
MINIMUM			7.30	0.0480	0.155	0.360
STD DEV (GEOM *)			0.29	0.1667	0.271	567.638<A
# SAMP IN STATISTICS			9	9	9	8
% SAMP (EXCLUDED)						

## 1983 WATER QUALITY DATA REGION 5

299

B.O.W./ SITE: SHAMATTAWA RIVER  
 SAMPLE POINT: WINISK RIVER BELOW ASHEWEIG RIVER  
 STATION TYPE: RIVER FLOW GAUGE FED 04DC001

TRIBUTARY  
 MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: WINISK RIVER

STATION ID: 19-0018-001-02

STORET CODE: 04  
 001  
 0018

LAT: 54 39 17.21 LONG: 087 17 29.00

U T M: 16 0481200.0 6056200.0 4

REGION: 05

DISTANCE: 24.160

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	ASUT	CAUR	CDUT	CLIDUR	COLAP	COND25
SAMPLE DATE	YEAR	DEPTH	PROJECT	ALK	ALUMINUM	ARSENIC	CALCIUM	CADMIUM	CHLORIDE	COLOUR	CONDUCT.
YYMMDD	LMT	M	SUB-PROJ CODE	TOTAL MG/L AS CAC03	UNF.TOT. MG/L AS AL	UNF.TOT. MG/L AS AS	UNF.REAC MG/L AS CA	UNF.TOT. MG/L AS CD	UNF.REAC MG/L AS CL-	APPARENT HZU	25C UMHO/CM AT 25 C
830806		24	0101	68.0	0.012	0.001<	25.000	0.0005	4.800	71.000	144.0
		MAXIMUM		68.0	0.012		25.000	0.0005	4.800	71.000	144.0
		ARITH MEAN		68.0	0.012		25.000	0.0005	4.800	71.000	144.0
		GEOM MEAN		68.0	0.012		25.000	0.0005	4.800	71.000	144.0
		MINIMUM		68.0	0.012		25.000	0.0005	4.800	71.000	144.0
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS	1	1	1	1	1	1	1	1	1
		% SAMP (EXCLUDED)									

*INTERIM TEST-NAME:		COUT	CRUT	CUUT	FEUT	HARDT	HGUT	KKUR	MGUR	MNUT	NAUR
SAMPLE DATE	YEAR	COBALT	CHROMIUM	COPPER	IRON	HARDNESS	MERCURY	POTASSIM	MAGNESIM	MANGANESE	SODIUM
YYMMDD	LMT	UNF.TOT. MG/L AS CO	UNF.TOT. MG/L AS CR	UNF.TOT. MG/L AS CU	UNF.TOT. MG/L AS FE	TOTAL MG/L AS CAC03	UNF.TOT. UG/L AS HG	UNF.REAC MG/L AS K	FIL.REAC MG/L AS MG	UNF.TOT. MG/L AS MN	UNF.REAC MG/L AS NA
830806		24	0.002<	0.008	0.002	0.57	76.000	0.031	0.10	3.400	0.029
		MAXIMUM		0.008	0.002	0.57	76.000	0.031	0.10	3.400	0.029
		ARITH MEAN		0.008	0.002	0.57	76.000	0.031	0.10	3.400	0.029
		GEOM MEAN		0.008	0.002	0.57	76.000	0.031	0.10	3.400	0.029
		MINIMUM		0.008	0.002	0.57	76.000	0.031	0.10	3.400	0.029
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS	1	1	1	1	1	1	1	1	1
		% SAMP (EXCLUDED)									

*INTERIM TEST-NAME:		NIUT	NNHTFR	NNO2FR	NNO3FR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP
SAMPLE DATE	YEAR	NICKEL	NH3-N	NH3-N	NH3-N	K'DAHL N	LEAD	PH	P04	PHOSPHOR	RESIDUE
YYMMDD	LMT	UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P	PARTIC. MG/L
830806		24	0.002	0.020	0.003	0.010<	0.400	0.003<	7.70	0.002	0.011
		MAXIMUM	0.002	0.020	0.003	0.400	0.400	0.003<	7.70	0.002	0.011
		ARITH MEAN	0.002	0.020	0.003	0.400	0.400	0.003<	7.70	0.002	0.011
		GEOM MEAN	0.002	0.020	0.003	0.400	0.400	0.003<	7.70	0.002	0.011
		MINIMUM	0.002	0.020	0.003	0.400	0.400	0.003<	7.70	0.002	0.011
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS	1	1	1	1	1	1	1	1	1
		% SAMP (EXCLUDED)									

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

300

B.O.W./ SITE: SHAMATTAWA RIVER

SAMPLE POINT: WINISK RIVER BELOW ASHEWEIG RIVER

STATION TYPE: RIVER FLOW GAUGE FED 04DC001

TRIBUTARY

MAJOR BASIN: GREAT LAKES

MINOR BASIN: JAMES BAY SHORE

TERM STREAM: WINISK RIVER

STATION ID: 19-0018-001-02

STORET CODE: 04

001

0018

LAT: 54 39 17.21 LONG: 087 17 29.00

U T M: 16 0481200.0 6056200.0 4

REGION: 05

DISTANCE: 24.160

*INTERIM TEST-NAME:		RST	SI03UR SILICATE	SS04UR SULPHATE	TURB	ZNUT ZINC	
SAMPLE DATE	HR	RESIDUE TOTAL	UNF.REAC MG/L	UNF.REAC MG/L	TURB'ITY FTU	UNF.TOT. MG/L	
YYMMDD	LMT	NUMBER	AS SI	AS S04		AS ZN	
830806		24	150.00	1.500	1.000<	1.10	0.003
		MAXIMUM	150.00	1.500		1.10	0.003
		ARITH MEAN	150.00	1.500		1.10	0.003
		GEOM MEAN					
		MINIMUM	150.00	1.500		1.10	0.003
		STD DEV (GEOM *)					
		# SAMP IN STATISTICS	1	1		1	1
		% SAMP (EXCLUDED)					

## 1983 WATER QUALITY DATA REGION 5

301

B.O.W./ SITE: ATTAWAPISKAT RIVER  
 SAMPLE POINT: ATTAWAPISKAT RIVER BELOW MUKETEI  
 STATION TYPE: RIVER FLOW GAUGE FED 04FC001

RIVER  
 MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: ATTAWAPISKAT RIVER

STATION ID: 19-0043-001-02

STORET CODE: 04  
 001  
 0043

LAT: 53 05 29.97 LONG: 085 03 52.98 U T M: 16 0629600.0 5884000.0 4 REGION: 05 DISTANCE: 24.000

*=INTERIM TEST-NAME:			FWSADP	FGPROJ	ALKT	ALUT	ASUT	CAUR	CDUT	CLIDUR	COLAP	COND25
					ALK	ALUMINUM	ARSENIC	CALCIUM	CADMIUM	CHLORIDE		CONDUCT.
SAMPLE	DATE	HOUR	SAMPLE	PROJECT	TOTAL	UNF.TOT.	UNF.TOT.	UNF.REAC	UNF.TOT.	UNF.REAC	COLOUR	25C
YYMMDD	LMT		DEPTH	SUB-PROJ	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	APPARENT	UMHO/CM
			M	CODE	AS CAC03	AS AL	AS AS	AS CA	AS CD	AS CL-	HZU	AT 25 C
830513			1	0101		0.050	0.0010		0.0005<			
830803			25	0101	53.0	0.22	0.001 <	18.000	0.0005	0.600	77.000	108.0
			MAXIMUM		53.0	0.22	0.0010	18.000	0.0005	0.600	77.000	108.0
			ARITH MEAN		53.0	0.13	0.0010	18.000	0.0005	0.600	77.000	108.0
			GEOM MEAN			0.10						
			MINIMUM		53.0	0.050	0.0010	18.000	0.0005	0.600	77.000	108.0
			STD DEV (GEOM *)			0.12						
			# SAMP IN STATISTICS	2	1	2	1	1	1	1	1	1
			% SAMP (EXCLUDED)			50			50			
*=INTERIM TEST-NAME:			COUT	CRUT	CUUT	FEUT	HARDT	HGUT	KKUR	MGUR	MNUT	NAUR
			COBALT	CHROMIUM	COPPER	IRON	HARDNESS	MERCURY	POTASSIM	MAGNESIM	MANGANSE	SODIUM
SAMPLE	DATE	HOUR	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	TOTAL	UNF.TOT.	UNF.REAC	FIL.REAC	UNF.TOT.	UNF.REAC
YYMMDD	LMT		MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	MG/L	MG/L
			AS CO	AS CR	AS CU	AS FE	AS CAC03	AS HG	AS K	AS MG	AS MN	AS NA
830513			1	0.0020<	0.0030	0.0010	0.5900	0.006			0.029	
830803			25	0.002 <	0.018	0.005	0.70	60.000	0.043	0.39	3.700	0.061
			MAXIMUM		0.018	0.005	0.70	60.000	0.043	0.39	3.700	0.061
			ARITH MEAN		0.010	0.003	0.64	60.000	0.024	0.39	3.700	0.045
			GEOM MEAN		0.007	0.002	0.64		0.016			0.042
			MINIMUM		0.0030	0.0010	0.5900	60.000	0.006	0.39	3.700	0.029
			STD DEV (GEOM *)		0.011	0.003	0.08		0.026			0.023
			# SAMP IN STATISTICS		2	2	2	1	2	1	1	2
			% SAMP (EXCLUDED)									1

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

302

B.O.W./ SITE: ATTAWAPISKAT RIVER  
 SAMPLE POINT: ATTAWAPISKAT RIVER BELOW MUKETEI  
 STATION TYPE: RIVER FLOW GAUGE FED 04FC001

RIVER  
 MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: ATTAWAPISKAT RIVER

STATION ID: 19-0043-001-02

STORET CODE: 04  
 001  
 0043

LAT: 53 05 29.97 LONG: 085 03 52.98

U T M: 16 0629600.0 5884000.0 4

REGION: 05

DISTANCE: 24.000

*INTERIM TEST-NAME:		NIUT	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	NICKEL UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	AS P	AS P	MG/L
830513		1	0.0020<					0.002<				
830803		25	0.002 <	0.010	0.003	0.010<	0.470	0.003<	7.70	0.002	0.018	1.00
		MAXIMUM		0.010	0.003		0.470		7.70	0.002	0.018	1.00
		ARITH MEAN		0.010	0.003		0.470		7.70	0.002	0.018	1.00
		GEOM MEAN										
		MINIMUM		0.010	0.003		0.470		7.70	0.002	0.018	1.00
		STD DEV (GEOM *)										
		# SAMP IN STATISTICS		1	1		1		1	1	1	1
		% SAMP (EXCLUDED)										
*INTERIM TEST-NAME:		RST	SI03UR SILICATE UNF.REAC	SS04UR SULPHATE UNF.REAC	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT.						
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	RESIDUE TOTAL MG/L	MG/L AS SI	MG/L AS S04	MG/L AS ZN						
830513		1				0.0050						
830803		25	130.00	1.500	1.800	0.010						
		MAXIMUM	130.00	1.500	1.800	0.010						
		ARITH MEAN	130.00	1.500	1.800	0.007						
		GEOM MEAN				0.007						
		MINIMUM	130.00	1.500	1.800	0.0050						
		STD DEV (GEOM *)				0.004						
		# SAMP IN STATISTICS	1	1	1	2						
		% SAMP (EXCLUDED)										

## 1983 WATER QUALITY DATA REGION 5

303

B.O.W./ SITE: EKWAN RIVER  
 SAMPLE POINT: OTOSKWIN RIVER BELOW BADESDAWA  
 STATION TYPE: RIVER FLOW GAUGE FED 04FA001

LAKE  
 MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: ATTAWAPISKAT RIVER

STATION ID: 19-0043-002-02

STORET CODE: 04  
 001  
 0043

LAT: 51 49 12.32 LONG: 089 35 49.67

U T M: 16 0321000.0 5744000.0 4

REGION: 05

DISTANCE: 94.400

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	ASUT	CAUR	CDUT	CLIDUR	COLAP	COND25	
				ALK	ALUMINUM	ARSENIC	CALCIUM	CADMIUM	CHLORIDE		CONDUCT.	
SAMPLE DATE	YMMDD LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	TOTAL MG/L AS CAC03	UNF.TOT. MG/L AS AL	UNF.TOT. MG/L AS AS	UNF.REAC MG/L AS CA	UNF.TOT. MG/L AS CD	UNF.REAC MG/L AS CL-	COLOUR APPARENT HZU	25C UMHO/CM AT 25 C
830806		26	0.30	0101	60.0	0.11	0.001<	22.000	0.0005	5.200	121.000	135.0
			MAXIMUM		60.0	0.11		22.000	0.0005	5.200	121.000	135.0
			ARITH MEAN		60.0	0.11		22.000	0.0005	5.200	121.000	135.0
			GEOM MEAN									
			MINIMUM		60.0	0.11		22.000	0.0005	5.200	121.000	135.0
			STD DEV (GEOM *)									
			# SAMP IN STATISTICS		1	1		1	1	1	1	1
			% SAMP (EXCLUDED)									
*INTERIM TEST-NAME:												
		COUT	CRUT	CUUT	FEUT	HARDT	HGUT	KKUR	HGUR	MNUT	NAUR	
		COBALT	CHROMIUM	COPPER	IRON	HARDNESS	MERCURY	POTASSIM	MAGNESIM	MANGANSE	SODIUM	
SAMPLE DATE	YMMDD LMT	UNF.TOT. MG/L AS CO	UNF.TOT. MG/L AS CR	UNF.TOT. MG/L AS CU	UNF.TOT. MG/L AS FE	TOTAL MG/L AS CAC03	UNF.TOT. UG/L AS HG	UNF.REAC MG/L AS K	FIL.REAC MG/L AS MG	UNF.TOT. MG/L AS MN	UNF.TOT. MG/L AS NA	
830806		26	0.002<	0.005	0.008	0.55	71.000	0.058	0.19	3.900	4.000	
			MAXIMUM	0.005	0.008	0.55	71.000	0.058	0.19	3.900	4.000	
			ARITH MEAN	0.005	0.008	0.55	71.000	0.058	0.19	3.900	4.000	
			GEOM MEAN									
			MINIMUM	0.005	0.008	0.55	71.000	0.058	0.19	3.900	4.000	
			STD DEV (GEOM *)									
			# SAMP IN STATISTICS	1	1	1	1	1	1	1	1	
			% SAMP (EXCLUDED)									
*INTERIM TEST-NAME:												
		NIUT	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT	RSP	
		NICKEL	NH3-N	NO2-N	NO3-N	K'DAHL N	LEAD		P04	PHOSPHOR	RESIDUE	
SAMPLE DATE	YMMDD LMT	UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P	PARTIC. MG/L	
830806		26	0.002<	0.020	0.009	0.010	0.490	0.003<	7.70	0.003	4.00	
			MAXIMUM	0.020	0.009	0.010	0.490		7.70	0.003	4.00	
			ARITH MEAN	0.020	0.009	0.010	0.490		7.70	0.003	4.00	
			GEOM MEAN									
			MINIMUM	0.020	0.009	0.010	0.490		7.70	0.003	4.00	
			STD DEV (GEOM *)									
			# SAMP IN STATISTICS	1	1	1	1	1	1	1	1	
			% SAMP (EXCLUDED)									

(CONTD)



## 1983 WATER QUALITY DATA REGION 5

304

B.O.W./ SITE: EKWAN RIVER  
 SAMPLE POINT: OTOSKWIN RIVER BELOW BADESDAWA  
 STATION TYPE: RIVER FLOW GAUGE FED 04FA001

LAKE  
 MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: ATTAWAPISKAT RIVER

STATION ID: 19-0043-002-02

STORET CODE: 04  
 001  
 0043

LAT: 51 49 12.32 LONG: 089 35 49.67

U T M: 16 0321000.0 5744000.0 4

REGION: 05

DISTANCE: 94.400

*INTERIM TEST-NAME:		RST	SI03UR SILICATE	SS04UR SULPHATE	TURB	ZNUT ZINC
SAMPLE DATE	HOUR	RESIDUE TOTAL	UNF.REAC MG/L	UNF.REAC MG/L	TURB*ITY FTU	UNF.TOT. MG/L
YYMMDD LMT	SAMPLE NUMBER	MG/L	AS SI	AS S04		AS ZN
830806	26	140.00	1.300	1.100	1.70	0.003
	MAXIMUM	140.00	1.300	1.100	1.70	0.003
	ARITH MEAN	140.00	1.300	1.100	1.70	0.003
	GEOM MEAN					
	MINIMUM	140.00	1.300	1.100	1.70	0.003
	STD DEV (GEOM *)					
	# SAMP IN STATISTICS	1	1	1	1	1
	% SAMP (EXCLUDED)					

## 1983 WATER QUALITY DATA REGION 5

305

B.O.W./ SITE: ALBANY RIVER  
 SAMPLE POINT: ALBANY RIVER NEAR NOTTICK ISLAND  
 STATION TYPE: RIVER FLOW GAUGE FED 04GD001

STATION ID: 19-0053-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: ALBANY RIVER

STORET CODE: 04  
 001  
 0053

LAT: 51 39 04.29 LONG: 086 23 34.55

U T M: 16 0542000.0 5722200.0 4

REGION: 05

DISTANCE: 75.520

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALUT	ASUT	CDUT	COUT	CRUT	CUUT	FEUT	HGUT
SAMPLE		SAMPLE	PROJECT	ALUMINUM	ARSENIC	CADMIUM	COBALT	CHROMIUM	COPPER	IRON	MERCURY
DATE	HOUR	DEPTH	SUB-PROJ	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.
YYMMDD	LMT	NUMBER	CODE	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
				AS AL	AS AS	AS CD	AS CO	AS CR	AS CU	AS FE	AS HG
830514		6	0101	0.060	0.0010<	0.0005<	0.0020<	0.0040	0.0010	0.3100	0.016
		MAXIMUM		0.060				0.0040	0.0010	0.3100	0.016
		ARITH MEAN		0.060				0.0040	0.0010	0.3100	0.016
		GEOM MEAN									
		MINIMUM		0.060				0.0040	0.0010	0.3100	0.016
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS	1	1				1	1	1	1
		% SAMP (EXCLUDED)									
*=INTERIM TEST-NAME:		MNUT	NIUT	PBUT	ZNUT						
SAMPLE		MANGANESE	NICKEL	LEAD	ZINC						
DATE	HOUR	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.						
YYMMDD	LMT	MG/L	MG/L	MG/L	MG/L						
		AS MN	AS NI	AS PB	AS ZN						
830514		6	0.037	0.002<	0.0030<	0.0100					
		MAXIMUM	0.037			0.0100					
		ARITH MEAN	0.037			0.0100					
		GEOM MEAN									
		MINIMUM	0.037			0.0100					
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS	1		1						
		% SAMP (EXCLUDED)									

## 1983 WATER QUALITY DATA REGION 5

306

B.O.W./ SITE: LITTLE CURRENT RIVER  
 SAMPLE POINT: LITTLE CURRENT RIVER AT PERCY LAKE  
 STATION TYPE: RIVER FLOW GAUGE FED 04JF001

STATION ID: 19-0053-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: ALBANY RIVER

STORET CODE: 04  
 001  
 0053

LAT: 50 39 40.67 LONG: 086 39 07.06

U T M: 16 0524600.0 5612000.0 4

REGION: 05

DISTANCE: 37.760

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	ASUT	CAUR	CDUT	CLIDUR	COLAP	COND25	
				ALK	ALUMINUM	ARSENIC	CALCIUM	CADMIUM	CHLORIDE		CONDUCT.	
SAMPLE DATE	YMHDD LHT	SAMPLE NUMBER	SAMPLE DEPTH	PROJECT SUB-PROJ CODE	TOTAL MG/L AS CAC03	UNF.TOT. MG/L AS AL	UNF.TOT. MG/L AS AS	UNF.REAC MG/L AS CA	UNF.TOT. MG/L AS CD	UNF.REAC MG/L AS CL-	COLOUR APPARENT HZU	UMHO/CM AT 25 C
830515		8	0.30	0101		0.040	0.0010<		0.0005<			
830808		23	0.30	0101	66.0	0.076	0.001	22.000	0.0005	0.200	49.000	132.0
		MAXIMUM	0.30		66.0	0.076	0.001	22.000	0.0005	0.200	49.000	132.0
		ARITH MEAN	0.30		66.0	0.058	0.001	22.000	0.0005	0.200	49.000	132.0
		GEOM MEAN				0.055						
		MINIMUM	0.30		66.0	0.040	0.001	22.000	0.0005	0.200	49.000	132.0
		STD DEV (GEOM *)				0.025						
		# SAMP IN STATISTICS	2		1	2	1	1	1	1	1	1
		% SAMP (EXCLUDED)				50		50				
*INTERIM TEST-NAME:		COUT	CRUT	CUUT	FEUT	HARDT	HGUT	KKUR	MGUR	MNUT	NAUR	
		COBALT	CHROMIUM	COPPER	IRON	HARDNESS	MERCURY	POTASSIM	MAGNESIM	MANGANSE	SODIUM	
SAMPLE DATE	YMHDD LHT	SAMPLE NUMBER	UNF.TOT. MG/L AS CO	UNF.TOT. MG/L AS CR	UNF.TOT. MG/L AS CU	UNF.TOT. MG/L AS FE	UNF.TOT. MG/L AS CAC03	UNF.TOT. UG/L AS HG	UNF.REAC MG/L AS K	UNF.TOT. MG/L AS MG	UNF.TOT. MG/L AS MN	UNF.REAC MG/L AS NA
830515		8	0.0020<	0.0060	0.0020	0.1600		0.014			0.010	
830808		23	0.002	0.005	0.001	0.15	75.000	0.066	0.57	4.800	0.026	0.840
		MAXIMUM	0.002	0.0060	0.0020	0.1600	75.000	0.066	0.57	4.800	0.026	0.840
		ARITH MEAN	0.002	0.005	0.001	0.15	75.000	0.040	0.57	4.800	0.018	0.840
		GEOM MEAN		0.005	0.001	0.15		0.030			0.016	
		MINIMUM	0.002	0.005	0.001	0.15	75.000	0.014	0.57	4.800	0.010	0.840
		STD DEV (GEOM *)		0.001	0.001	0.01		0.037			0.011	
		# SAMP IN STATISTICS	1	2	2	2	1	2	1	1	2	1
		% SAMP (EXCLUDED)	50									

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

307

B.O.W./ SITE: LITTLE CURRENT RIVER  
 SAMPLE POINT: LITTLE CURRENT RIVER AT PERCY LAKE  
 STATION TYPE: RIVER FLOW GAUGE FED 04JF001

STATION ID: 19-0053-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: ALBANY RIVER

STORET CODE: 04  
 001  
 0053

LAT: 50 39 40.67 LONG: 086 39 07.06 U T M: 16 0524600.0 5612000.0 4 REGION: 05 DISTANCE: 37.760

*INTERIM TEST-NAME:		NIUT	NNHTFR NH3-N	NN02FR	NN03FR	NNTKUR K'DAHL N	PBUT	PH	PP04FR	PPUT	RSP
		NICKEL UNF.TOT. MG/L	TOTAL FIL.REAC MG/L	N02-N FIL.REAC MG/L	N03-N FIL.REAC MG/L	TOTAL UNF.REAC MG/L	LEAD UNF.TOT. MG/L		P04 FIL.REAC MG/L	PHOSPHOR UNF.TOT. MG/L	RESIDUE PARTIC. MG/L
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	AS NI	AS N	AS N	AS N	AS PB	PH	AS P	AS P	
830515		8	0.002<				0.0030				
830808		23	0.002<	0.030	0.003	0.010<	0.480	0.004	7.80	0.003	0.019
		MAXIMUM		0.030	0.003		0.480	0.004	7.80	0.003	0.019
		ARITH MEAN		0.030	0.003		0.480	0.003	7.80	0.003	0.019
		GEOM MEAN					0.003				
		MINIMUM		0.030	0.003		0.480	0.0030	7.80	0.003	0.019
		STD DEV (GEOM *)					0.001				
		# SAMP IN STATISTICS		1	1		1	2	1	1	1
		% SAMP (EXCLUDED)									

*INTERIM TEST-NAME:		RST	SI03UR SILICATE	SS04UR SULPHATE	TURB	ZNUT ZINC
		RESIDUE TOTAL MG/L	UNF.REAC MG/L	UNF.REAC MG/L	TURB'ITY FTU	UNF.TOT. MG/L
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	AS SI	AS S04		AS ZN
830515		8				0.0070
830808		23	150.00	2.200	1.800	1.40
		MAXIMUM	150.00	2.200	1.800	1.40
		ARITH MEAN	150.00	2.200	1.800	1.40
		GEOM MEAN				0.004
		MINIMUM	150.00	2.200	1.800	1.40
		STD DEV (GEOM *)				0.002
		# SAMP IN STATISTICS	1	1	1	1
		% SAMP (EXCLUDED)				2

## 1983 WATER QUALITY DATA REGION 5

308

B.O.W./ SITE: ALBANY RIVER  
 SAMPLE POINT: ALBANY RIVER NEAR HAT ISLAND  
 STATION TYPE: RIVER FLOW GAUGE FED 04HA001

STATION ID: 19-0053-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: ALBANY RIVER

STORET CODE: 04  
 001  
 0053

LAT: 51 20 52.26 LONG: 083 23 21.76 U T M: 17 0333600.0 5691000.0 4 REGION: 05 DISTANCE: 27.520

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	ASUT	CAUR	CDUT	CLIDUR	COLAP	COND25
SAMPLE DATE	YEAR	DEPTH	PROJECT	ALK	ALUMINUM	ARSENIC	CALCIUM	CADMIUM	CHLORIDE	COLOUR	CONDUCT.
YYMMDD	LMT	NUMBER	SUB-PROJ	TOTAL	UNF.TOT.	UNF.TOT.	UNF.REAC	UNF.TOT.	UNF.REAC	APPARENT	UMHO/CM
		M	CODE	MG/L	AS AL	AS AS	AS CA	AS CD	AS CL-	HZU	AT 25 C
830512		5	0101		0.270	0.0010		0.0005<			
830809		22	0101	59.0	0.064	0.001 <	19.000	0.0005<	0.600	75.000	121.0
		MAXIMUM		59.0	0.270	0.0010	19.000		0.600	75.000	121.0
		ARITH MEAN		59.0	0.167	0.0010	19.000		0.600	75.000	121.0
		GEOM MEAN			0.131						
		MINIMUM		59.0	0.064	0.0010	19.000		0.600	75.000	121.0
		STD DEV (GEOM *)			0.146						
		# SAMP IN STATISTICS	2	1	2	1	1		1	1	1
		% SAMP (EXCLUDED)			50						

*INTERIM TEST-NAME:		COUT	CRUT	CUUT	FEUT	HARDT	HGUT	KKUR	HGUR	MNUT	NAUR
SAMPLE DATE	YEAR	COBALT	CHROMIUM	COPPER	IRON	HARDNESS	MERCURY	POTASSIM	MAGNESIM	MANGANSE	SODIUM
YYMMDD	LMT	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	TOTAL	UNF.TOT.	UNF.REAC	FIL.REAC	UNF.TOT.	UNF.REAC
		MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		AS CO	AS CR	AS CU	AS FE	AS CACO3	AS HG	AS K	AS HG	AS MN	AS NA
830512		5	0.0020<	0.0050	0.0020	0.8600		0.013			
830809		22	0.002 <	0.002	0.001	0.25	65.000	0.022	0.50	4.300	0.033
		MAXIMUM		0.0050	0.0020	0.8600	65.000	0.022	0.50	4.300	0.100
		ARITH MEAN		0.003	0.001	0.55	65.000	0.017	0.50	4.300	0.066
		GEOM MEAN		0.003	0.001	0.46		0.017			0.057
		MINIMUM		0.002	0.001	0.25	65.000	0.013	0.50	4.300	0.033
		STD DEV (GEOM *)		0.002	0.001	0.43		0.006			0.047
		# SAMP IN STATISTICS		2	2	2	1	2	1	1	2
		% SAMP (EXCLUDED)									1

(CONT'D)

## 309

STORET CODE: 04  
001  
0053

**DISTANCE: 27.520**

*INTERIM		TEST-NAME:	RST	SIO3UR	SSO4UR	TURB	ZNUT
			RESIDUE	SILICATE	SULPHATE		ZINC
			UNF.REAC	UNF.REAC	UNF.REAC		UNF.TOT.
SAMPLE			MG/L	MG/L	MG/L		MG/L
DATE	HOUR	SAMPLE	TOTAL	AS SI	AS S04	TURB*ITY	AS ZN
YYMMDD	LHT	NUMBER	MG/L			FTU	
830512		5					0.0190
830809		22	130.00	1.600	1.400	1.60	0.001
		MAXIMUM	130.00	1.600	1.400	1.60	0.0190
		ARITH MEAN	130.00	1.600	1.400	1.60	0.010
		GEOM MEAN					0.004
		MINIMUM	130.00	1.600	1.400	1.60	0.001
		STD DEV (GEOM *)					0.013
#	SAMP	IN STATISTICS	1	1	1	1	2
%	SAMP	(EXCLUDED)					

## 1983 WATER QUALITY DATA REGION 5

310

B.O.W./ SITE: KENOGAMI RIVER  
 SAMPLE POINT: KENOGAMI RIVER NEAR MAHAMATTAWA  
 STATION TYPE: RIVER FLOW GAUGE FED 04JG001

STATION ID: 19-0053-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: ALBANY RIVER

STORET CODE: 04  
 001  
 0053

LAT: 50 24 33.36 LONG: 084 22 46.12 U T M: 16 0686200.0 5587200.0 4 REGION: 05 DISTANCE: 47.780

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALUT	ASUT	CDUT	COUT	CRUT	CUUT	FEUT	HGUT
SAMPLE		SAMPLE	PROJECT	ALUMINUM	ARSENIC	CADMIUM	COBALT	CHROMIUM	COPPER	IRON	MERCURY
DATE	HOUR	DEPTH	SUB-PROJ	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.
YYMMDD	LMT	NUMBER	CODE	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		M		AS AL	AS AS	AS CD	AS CO	AS CR	AS CU	AS FE	AS HG
830511		7	0101	0.260	0.0010	0.0005<	0.0020<	0.0040	0.0010	0.6300	0.032
		MAXIMUM	0.30	0.260	0.0010			0.0040	0.0010	0.6300	0.032
		ARITH MEAN	0.30	0.260	0.0010			0.0040	0.0010	0.6300	0.032
		GEOM MEAN									
		MINIMUM	0.30	0.260	0.0010			0.0040	0.0010	0.6300	0.032
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS	1	1	1			1	1	1	1
		% SAMP (EXCLUDED)									
*=INTERIM TEST-NAME:		MNUT	NIUT	PBUT	ZNUT						
SAMPLE		MANGANSE	NICKEL	LEAD	ZINC						
DATE	HOUR	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.						
YYMMDD	LMT	MG/L	MG/L	MG/L	MG/L						
		AS MN	AS NI	AS PB	AS ZN						
830511		7	0.047	0.002<	0.0030<	0.0050					
		MAXIMUM	0.047			0.0050					
		ARITH MEAN	0.047			0.0050					
		GEOM MEAN									
		MINIMUM	0.047			0.0050					
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS	1		1						
		% SAMP (EXCLUDED)									

## 1983 WATER QUALITY DATA REGION 5

311

B.O.W./ SITE: MATTAGAMI RIVER  
 SAMPLE POINT: HIGHWAY 101 BRIDGE, TIMMINS  
 STATION TYPE: RIVER

STATION ID: 19-0064-002-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 48 28 32.04 LONG: 081 21 01.54 U T M: 17 0474100.0 5369000.0 4 REGION: 05 DISTANCE: 427.269

*INTERIM TEST-NAME:		FWSADP	FGPROJ	AGUT	ALKT	ALUT	ASUT	CCNAUR CYANIDE	CLIDUR	COND25	CUUT
SAMPLE		SAMPLE	PROJECT	SILVER	ALK	ALUMINUM	ARSENIC	AVAIL	CHLORIDE	CONDUCT.	COPPER
DATE	HR	DEPTH	SUB-PROJ	UNF.TOT.	TOTAL	UNF.TOT.	UNF.TOT.	UNF.REAC	UNF.REAC	25C	UNF.TOT.
YYMMDD	LMT	NUMBER	CODE	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO/CM	MG/L
				AS AG	AS CAC03	AS AL	AS AS	AS HCN	AS CL-	AT 25 C	AS CU
830110		13702	0101		42.3	0.250	0.001<	0.001<W	1.31	105.0	0.006
830202	0930	13705	0101		44.0	0.061	0.001<	0.001<W	0.97	107.0	0.002
830302	1430	13706	0101		47.4	0.870	0.001<	0.001<W	1.30	114.0	0.046
830408	1020	13711	0101		47.8	0.067	0.001<	0.001<W	1.65	112.0	0.011
830503		13714	0101	0.0050<	33.1	0.220		0.001<W	0.91	76.3	0.004
830602	1000	13721	0101		35.1	0.440	0.001<	0.001<W	0.57	71.2	0.006
830704		13724	0101		37.0	0.470	0.002	0.001<W	0.72	89.2	0.010
830810		13727	0101		48.3	0.082	0.001<	0.002<T	0.98	106.5	0.001
830902	1615	13730	0101		44.5	0.100	0.001<	0.001<W	1.21	110.3	0.031
830929		13733	0101		37.6	0.044	0.001<	0.001<W	1.03	85.7	0.007
831102		13738	0101		42.5	0.110	0.001<	0.001<W	1.17	102.5	0.003
		MAXIMUM	0.30		48.3	0.870	0.002	0.002	1.65	114.0	0.046
		ARITH MEAN	0.30		41.8	0.247	0.002	0.001<A	1.07	98.2	0.012
		GEOM MEAN			41.5	0.159		0.001<A	1.03	97.0	0.007
		MINIMUM	0.30		33.1	0.044	0.002	0.001	0.57	71.2	0.001
		STD DEV (GEOM *)			5.3	0.255		0.000<A	0.30	15.0	0.014
		# SAMP IN STATISTICS	9		11	11	1	11	11	11	11
		% SAMP (EXCLUDED)					90				

*INTERIM TEST-NAME:		DO	FEUT	FWTEMP	NIUT	NNHTFR NH3-N	NNOTFR	NNTKUR K'DAHL N	PBUT	PH	PHNOL
SAMPLE		DISOLVED OXYGEN	IRON		NICKEL	TOTAL	NO2+NO3N	TOTAL	LEAD		PHENOLS
DATE	HR	MG/L	UNF.TOT.	WATER	UNF.TOT.	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		UNF-REAC
YYMMDD	LMT	AS O	AS FE	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L	PH	UG/L
				DEG.C	AS NI	AS N	AS N	AS N	AS PB		PHENOL
830110		13702	0.185	4.0	0.001	0.052	0.100	0.540	0.005	7.76	0.4<T
830202	0930	13705	0.140	1.5	0.001<	0.006	0.115	0.240	0.096	7.41	0.2<W
830302	1430	13706	0.115	1.0	0.090	0.096	0.145	0.560	0.003<	7.68	0.2<T
830408	1020	13711	0.105		0.002	0.008	0.160	0.330	0.018	7.46	0.6<T
830503		13714	0.730	2.5	0.001	0.010	0.195	0.480	0.015	7.08	3.0
830602	1000	13721	0.530		0.001	0.006	0.090	0.350	0.003<	7.49	0.6<T
830704		13724	0.165		0.004	0.020	0.040	0.400	0.008	7.55	1.0
830810		13727	0.300		0.002<	0.020	0.045	0.470	0.003<	7.72	0.2<T
830902	1615	13730	0.265		0.002<	0.028	0.025	0.350	0.003<	7.50	0.2<T
830929		13733	0.190		0.007	0.020	0.025	0.360	0.005	7.70	0.4<T
831102		13738	0.345	3.0	0.001	0.018	0.055	0.360	0.006	7.90	1.6

(CONT'D)



## 312

STORET CODE: 04  
001  
0230

**DISTANCE: 427.269**

*INTERIM		TEST-NAME:	PP04FR	PPUT	RSP	SS04UR	TURB	ZNUT
			P04	PHOSPHOR		SULPHATE		ZINC
			FIL.REAC	UNF.TOT.	RESIDUE	UNF.REAC		UNF.TOT.
SAMPLE			MG/L	MG/L	PARTIC.	MG/L		MG/L
DATE	HRUR	SAMPLE	AS P	AS P	MG/L	AS S04	TURB'ITY	AS ZN
YYMMDD	LMT	NUMBER					FTU	
830110		13702	0.0040	0.016	4.540	7.11	1.90	0.014
830202	0930	13705	0.0010<T	0.009	0.940	7.33	2.20	0.011
830302	1430	13706	0.0065	0.014	1.150	7.31	1.20	0.003<
830408	1020	13711	0.0005<T	0.009	2.280	7.46	1.60	0.004
830503		13714	0.0010<T	0.024	5.720	5.19	7.30	0.005
830602	1000	13721	0.0670	0.115	32.300	8.27	5.20	0.006
830704		13724	0.0030	0.021	9.610	5.84	2.50	0.021
830810		13727	0.0050	0.027	17.900	4.95	3.80	0.002
830902	1615	13730	0.0040	0.020	6.680	10.75	2.20	0.002
830929		13733	0.0020<T	0.011	1.490	5.40	2.00	0.001
831102		13738	0.0010<T	0.013	4.920	6.00	1.30	0.005
MAXIMUM			0.0670	0.115	32.300	10.75	7.30	0.021
ARITH MEAN			0.0086<A	0.025	7.957	6.87	2.84	0.007
GEOM MEAN			0.0029<A	0.018	4.553	6.70	2.42	
MINIMUM			0.0005	0.009	0.940	4.95	1.20	0.001
STD DEV (GEOM *)			0.0195<A	0.030	9.441	1.68	1.88	
# SAMP IN STATISTICS			11	11	11	11	11	10
% SAMP (EXCLUDED)								9

## 1983 WATER QUALITY DATA REGION 5

313

B.O.W./ SITE: PORCUPINE RIVER  
 SAMPLE POINT: HIGHWAY 101 WHITNEY TOWNSHIP  
 STATION TYPE: RIVER

STATION ID: 19-0064-003-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 48 29 41.49 LONG: 081 10 32.23 U T M: 17 0487025.0 5371100.0 4 REGION: 05 DISTANCE: 431.936

*INTERIM TEST-NAME:		FNSADP	FGPROJ	ALKT	ASUT	CCNAUR CYANIDE	COND25	CUUT	DO	FEUT	FWTEMP	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	ARSENIC UNF.TOT. MG/L AS AS	AVAIL UNF.REAC MG/L AS HCN	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	DISOLVED OXYGEN MG/L AS O	IRON UNF.TOT. MG/L AS FE	WATER TEMP DEG.C
830110		13701	0.30	0101	114.0	0.005	0.003	657.0	0.022		0.110	2.0
830202	1000	13704	0.30	0101	118.0	0.007	0.002<T	687.0	0.047	10.20	0.150	2.0
830302		13707	0.30	0101	121.3	0.005	0.001<W	692.0	0.023	5.80	0.360	0.5
830503		13713	0.30	0101	48.8	0.011	0.030	240.0	0.064	9.10	0.525	4.0
830602	1000	13720		0101	77.1	0.007	0.001<W	455.0	0.080		0.400	
830704		13723		0101	96.2	0.001	0.002<T	545.0	0.110		3.875	
830810		13726	0.30	0101	106.5	0.020		507.0	0.041		1.650	
830902	1600	13729	0.30	0101	107.6	0.017	0.001<W	504.0	0.015		0.145	
830929		13732	0.30	0101	124.6	0.013	0.001<W	625.0	0.009		0.335	
831102		13736	0.30	0101	118.0	0.008	0.001<W	633.0	0.020	12.60	0.115	4.0
		MAXIMUM	0.30		124.6	0.020	0.030	692.0	0.110	12.60	3.875	4.0
		ARITH MEAN	0.30		103.2	0.009	0.005<A	554.5	0.043	9.42	0.766	2.5
		GEOM MEAN			100.0	0.007	0.002<A	533.8	0.033	9.08	0.367	2.0
		MINIMUM	0.30		48.8	0.001	0.001	240.0	0.009	5.80	0.110	0.5
		STD DEV (GEOM *)			23.7	0.006	0.010<A	138.2	0.033	2.82	1.184	1.5
		# SAMP IN STATISTICS	8		10	10	9	10	10	4	10	5
		% SAMP (EXCLUDED)										

*INTERIM TEST-NAME:		NIUT	NNOTFR	NNTKUR K'DAHL N TOTAL	PBUT	PH	PPUT	SSO4UR	TURB	ZNUT
SAMPLE DATE YYMMDD	HOUR LMT	NICKEL UNF.TOT. MG/L AS NI	NO2+NO3N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PH	PHOSPHOR UNF.TOT. MG/L AS P	SULPHATE UNF.REAC MG/L AS S04	TURB*ITY FTU	ZINC UNF.TOT. MG/L AS ZN
830110		0.022	0.370	0.700	0.003<	8.05	0.023	185.60	1.60	0.010
830202	1000	0.027	0.340	0.460	0.070	7.49	0.023	199.00	2.20	0.030
830302		0.023	0.600	0.730	0.003<	7.40	0.047	266.20	4.50	0.012
830503		0.013	0.635	0.480	0.014	7.20	0.018	51.62	6.00	0.013
830602	1000	0.028	1.020	0.590	0.015	7.56	0.036	134.50	5.50	0.021
830704		0.037	0.895	2.120	0.004	7.28	0.292	134.50	60.00	0.100
830810		0.015	0.050	0.620	0.003<	8.13	0.135	126.65	32.00	0.150
830902	1600	0.016	0.010<T	0.600	0.003<	8.63	0.075	141.65	3.20	0.006
830929		0.011	0.005<W	0.530	0.003<	8.73	0.051	153.00	3.50	0.001
831102		0.020	0.015	0.540	0.012	8.53	0.033	186.40	2.30	0.008

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

314

B.O.W./ SITE: PORCUPINE RIVER  
 SAMPLE POINT: HIGHWAY 101 WHITNEY TOWNSHIP  
 STATION TYPE: RIVER

STATION ID: 19-0064-003-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 48 29 41.49 LONG: 081 10 32.23 U T M: 17 0487025.0 5371100.0 4 REGION: 05 DISTANCE: 431.936

*=INTERIM TEST-NAME:		NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	SSO4UR	TURB	ZNUT
		NICKEL	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR	SULPHATE	ZINC	
SAMPLE		UNF.TOT.	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.TOT.	UNF.REAC		UNF.TOT.
DATE	HOUR	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	TURB*ITY	MG/L
YYMMDD	LMT	AS NI	AS N	AS N	AS PB	PH	AS P	AS S04	FTU	AS ZN
	MAXIMUM	0.037	1.020	2.120	0.070	8.73	0.292	266.20	60.00	0.150
	ARITH MEAN	0.021	0.394<A	0.737	0.023	7.90	0.073	157.91	12.08	0.035
	GEOM MEAN	0.020	0.132<A	0.657		7.88	0.049	146.96	5.51	0.015
	MINIMUM	0.011	0.005	0.460	0.004	7.20	0.018	51.62	1.60	0.001
	STD DEV (GEOM *)	0.008	0.381<A	0.494		0.59	0.084	56.42	19.11	0.049
# SAMP IN STATISTICS		10	10	10	5	10	10	10	10	10
% SAMP (EXCLUDED)					50					

## 1983 WATER QUALITY DATA REGION 5

315

B.O.W./ SITE: PORCUPINE RIVER  
 SAMPLE POINT: HIGHWAY 101 BRIDGE, HOYLE  
 STATION TYPE: RIVER FLOW GAUGE FED 02MD004

STATION ID: 19-0064-004-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 48 32 59.49 LONG: 081 03 15.12

U T M: 17 0496000.0 5377200.0 4

REGION: 05

DISTANCE: 404.739

*INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	ASUT	CCNAUR CYANIDE	COND25	CUUT	DO	FEUT	FWFLOW
SAMPLE DATE	HOURL YYMMDD		SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	ARSENIC UNF.TOT. MG/L AS AS	AVAIL UNF.REAC MG/L AS HCN	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	DISOLVED OXYGEN MG/L AS O	IRON UNF.TOT. MG/L AS FE	STREAM FLOW M3 /S
830110		13700	0.30	0101	79.0	0.003	0.001<W	766.0	0.011		0.680	1.170
830202	1100	13703	0.30	0101	45.6	0.004	0.002<T	1012.0	0.014	7.00	0.800	0.710
830302		13708	0.30	0101	7.4	0.003	0.001<W	1119.0	0.018		0.645	0.590
830408	1000	13710	0.30	0101	123.7	0.005	0.001<W	715.0	0.160		0.455	1.840
830503		13712	0.30	0101	21.7	0.003	0.001<W	162.0	0.034	10.60	1.025	55.900
830602	1000	13719		0101	35.2	0.002	0.001<W	235.0	0.023		0.575	24.100
830704		13722		0101	51.5	0.001<	0.001<T	376.0	0.002		0.575	1.890
830810		13725	0.30	0101	91.4	0.005	0.004<T	925.0	0.084		0.220	0.743
830902	1500	13728	0.30	0101	53.4	0.001	0.001<W	809.0	0.005		0.375	1.780
830929		13731	0.30	0101	54.9	0.003	0.001<W	421.0	0.006		1.125	3.120
831102		13734	0.30	0101	50.0	0.003	0.001<W	456.0	0.014	10.00	0.270	4.660
		MAXIMUM	0.30		123.7	0.005	0.004	1119.0	0.160	10.60	1.125	55.900
		ARITH MEAN	0.30		55.8	0.003	0.001<A	636.0	0.034	9.20	0.613	8.773
		GEOM MEAN			45.5		0.001<A	545.6	0.016	9.05	0.549	2.644
		MINIMUM	0.30		7.4	0.001	0.001	162.0	0.002	7.00	0.220	0.590
		STD DEV (GEOM *)			32.4		0.001<A	322.9	0.048	1.93	0.288	17.039
# SAMP IN STATISTICS		9			11	10	11	11	11	3	11	11
% SAMP (EXCLUDED)						9						

*INTERIM		TEST-NAME:	FWTEMP	NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	WATER TEMP DEG.C	NICKEL	NO2+NO3N	K'DAHL N	LEAD	PH	PHOSPHOR	SULPHATE	TURB'ITY FTU	ZINC
				UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB		UNF.TOT. MG/L AS P	UNF.REAC MG/L AS SO4		UNF.TOT. MG/L AS ZN
830110		13700	2.0	0.008	0.005<T	1.650	0.003<	6.92	0.026	306.40	4.00	0.045
830202	1100	13703	1.0	0.001<	0.005<T	0.770	0.003<	6.90	0.230	483.10	11.80	0.023
830302		13708		0.011	0.005<T	1.210	0.003<	6.39	0.465	496.25	8.10	0.035
830408	1000	13710		0.039	1.260	0.910	0.140	7.22	0.101	106.05	4.20	0.041
830503		13712	2.0	0.006	0.395		0.016	6.90	0.064	44.50	6.60	0.042
830602	1000	13719		0.007	0.365	0.650	0.003<	7.02	0.037	74.40	5.20	0.055
830704		13722		0.002<	0.070	0.875	0.003<	7.14	0.700	128.40	6.10	0.003
830810		13725		0.003	0.145	0.300	0.003<	7.65	0.063	415.50	3.60	0.180
830902	1500	13728		0.002	0.010<T	0.820	0.003<	7.14	0.138	393.50	3.80	0.026
830929		13731		0.025	0.135	0.860	0.003<	7.23	0.089	146.00	8.10	0.028
831102		13734	3.0	0.009	0.235	0.790	0.011	7.47	0.061	164.00	6.80	0.056

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

316

B.O.W./ SITE: PORCUPINE RIVER  
 SAMPLE POINT: HIGHWAY 101 BRIDGE, HOYLE  
 STATION TYPE: RIVER FLOW GAUGE FED 02MD004

STATION ID: 19-0064-004-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 48 32 59.49 LONG: 081 03 15.12

U T M: 17 0496000.0 5377200.0 4

REGION: 05

DISTANCE: 404.739

*INTERIM TEST-NAME:		FWTEMP	NIUT	NNOTFR	NNTKUR	PBUT	PH	PPUT	SS04UR	TURB	ZNUT
			NICKEL	NO2+NO3N	K'DAHL N	LEAD		PHOSPHOR	SULPHATE		ZINC
SAMPLE DATE	HOUR	WATER TEMP	UNF.TOT. MG/L	FIL.REAC MG/L	UNF.REAC MG/L	UNF.TOT. MG/L		UNF.TOT. MG/L	UNF.REAC MG/L	TURB IDTY	UNF.TOT. MG/L
YYMMDD	LMT	DEG.C	AS NI	AS N	AS N	AS PB	PH	AS P	AS SO4	FTU	AS ZN
MAXIMUM		3.0	0.039	1.260	1.650	0.140	7.65	0.700	496.25	11.80	0.180
ARITH MEAN		2.0	0.012	0.239<A	0.883	0.056	7.09	0.179	250.74	6.21	0.049
GEOM MEAN		1.9		0.064<A	0.817		7.08	0.107	191.86	5.81	0.034
MINIMUM		1.0	0.002	0.005	0.300	0.011	6.39	0.026	44.50	3.60	0.003
STD DEV (GEOM *)		0.8		0.367<A	0.352		0.33	0.214	171.15	2.48	0.046
# SAMP IN STATISTICS		4	9	11	10	3	11	11	11	11	11
% SAMP (EXCLUDED)			18			72					

## 1983 WATER QUALITY DATA REGION 5

317

B.O.W./ SITE: MATTAMISHKWINIA RIVER  
 SAMPLE POINT: HIGHWAY 11 TOWN OF HEARST  
 STATION TYPE: RIVER

STATION ID: 19-0064-008-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 49 41 07.00 LONG: 083 38 00.11 U T M: 17 0310050.0 5506750.0 4 REGION: 05 DISTANCE: 344.390

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	DO	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC	NNTKUR K'DAHL N TOTAL
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	DISSOLVED OXYGEN MG/L AS O	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N
830523 1555	11951	0.30	0101	1.81	79.5	5.00	9 3	8.0	0.090	0.005<W	0.710
830605 1715	11955	0.30	0101	0.29	70.8	10.00	8	13.0	0.020	0.020	0.500
830628 1935	11959	0.30	0101	0.98	108.4	9.00	8	22.0	0.028	0.030	0.750
830721 1430	11963	0.30	0101	1.57	139.0	9.00	8	25.0	0.020	0.040	0.700
830828 1640	11967	0.30	0101	5.36	194.0	8.00	8	24.0	0.080	0.020	1.000
830927 1925	11971	0.30	0101	0.76	87.4	10.00	8	12.0	0.026	0.035	0.770
831019 1845	11975	0.30	0101	0.87	81.5	10.00	3	4.0	0.012	0.075	0.890
831123 1630	11979	0.30	0101	2.06	112.3	8.00	4		0.010	0.135	0.690
831229 1440	11983	0.30	0101	1.57	153.0	12.00	4		0.008	0.300	0.910
MAXIMUM		0.30		5.36	194.0	12.00		25.0	0.090	0.300	1.000
ARITH MEAN		0.30		1.70	114.0	9.00		15.4	0.033	0.073<A	0.769
GEOM MEAN				1.28	108.1	8.78		13.1	0.023	0.040<A	0.756
MINIMUM		0.30		0.29	70.8	5.00		4.0	0.008	0.005	0.500
STD DEV (GEOM *)				1.49	40.9	1.94		8.3	0.031	0.094<A	0.148
# SAMP IN STATISTICS		9		9	9	9		7	9	9	9
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	TURB TURB'ITY FTU
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	PH	MG/L AS P	MG/L AS P	MG/L	
830523 1555	11951	7.11	0.4700		12.300	6.50
830605 1715	11955	7.30	0.0790	0.095	4.680	3.10
830628 1935	11959	7.67	0.1270	0.160	13.100	6.50
830721 1430	11963	7.66	0.0100	0.037	24.400	7.10
830828 1640	11967	7.91	0.0130	0.049	5.510	8.60
830927 1925	11971	7.37	0.0060	0.024	5.570	6.40
831019 1845	11975	7.31	0.0015<T	0.016	4.450	2.00
831123 1630	11979	7.62	0.0050	0.025	5.940	4.00
831229 1440	11983	7.25	0.0135	0.048	19.900	7.30
MAXIMUM		7.91	0.4700	0.160	24.400	8.60
ARITH MEAN		7.47	0.0806<A	0.057	10.650	5.72
GEOM MEAN		7.46	0.0193<A	0.043	8.738	5.24
MINIMUM		7.11	0.0015	0.016	4.450	2.00
STD DEV (GEOM *)		0.26	0.1522<A	0.048	7.347	2.18
# SAMP IN STATISTICS		9	9	8	9	9
% SAMP (EXCLUDED)						

## 1983 WATER QUALITY DATA REGION 5

318

B.O.W./ SITE: MATTAGAMI RIVER

SAMPLE POINT: UPSTR.OF ABITIBI PAPER SHOOOTH ROCK FALLS

STATION TYPE: RIVER

STATION ID: 19-0064-011-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO

MINOR BASIN: JAMES BAY SHORE

TERM STREAM: MOOSE RIVER

STORET CODE: 04

001

0230

LAT: 49 16 34.72 LONG: 081 38 18.90

U T M: 17 0453550.0 5458150.0 4

REGION: 05

DISTANCE: 317.837

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5 5 DAY TOT.DEN.	CLIDUR	COD	COND25	DO	FWTEMP	NNOTFR	NNTKUR K'DAHL N TOTAL	
SAMPLE DATE YYMMDD	DATE HOUR LHT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	MG/L AS O	CHLORIDE UNF.REAC MG/L AS CL-	CHEM. OX DEMAND MG/L AS O	CONDUCT. 25C UMHO/CM AT 25 C	DISOLVED OXYGEN MG/L AS O	WATER TEMP DEG.C	NO2+NO3N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N
830627	1715	11851	0.30	0101	0.68	0.80	33.5	89.5	9.00	20.0	0.045	0.570
830705	1200	11856	0.30	0101	0.77	0.83	40.2	97.8	8.00	19.0	0.070	0.500
830711	1130	11861	0.30	0101	0.80	0.84	30.8	101.2	9.00	21.0	0.085	0.440
830720	1500	11866	0.30	0101	1.13	0.83	32.6	100.0	5.73	23.0	0.040	0.420
830726	1305	11871	0.30	0101	1.28	0.94	27.7	108.1	4.45	23.0	0.045	0.450
830802	1350	11876	0.30	0101	0.65	1.03	34.1	113.7	5.62	24.0	0.025	0.400
830808	1105	11881	0.30	0101	0.99	0.95	41.0	119.8	5.88	24.0	0.050	0.430
830817	1200	11886	0.30	0101	0.99	1.12	24.6	133.0	5.98	22.0	0.015	0.410
830825	1410	11891	0.30	0101	0.38<T	1.16	28.3	137.0	6.11	21.0	0.005<T	0.360
MAXIMUM		0.30			1.28	1.16	41.0	137.0	9.00	24.0	0.085	0.570
ARITH MEAN		0.30			0.83<A	0.94	32.5	111.1	6.64	21.9	0.042<A	0.442
GEOM MEAN					0.79<A	0.94	32.1	110.1	6.47	21.8	0.033<A	0.439
MINIMUM		0.30			0.38	0.80	24.6	89.5	4.45	19.0	0.005	0.360
STD DEV (GEOM *)					0.29<A	0.13	5.5	16.2	1.62	1.8	0.025<A	0.061
# SAMP IN STATISTICS		9			8	9	9	9	9	9	9	9
% SAMP (EXCLUDED)												

*=INTERIM TEST-NAME:		PH	PHNOL PHENOLS UNF-REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	SSO4UR SULPHATE UNF.REAC	TURB TURB'ITY FTU
SAMPLE DATE YYMMDD	DATE HOUR LHT	SAMPLE NUMBER	PH	MG/L AS P	MG/L	MG/L AS S04	
830627	1715	11851	7.45	3.0	0.050	6.760	5.40
830705	1200	11856	7.53	0.6<T	0.023	5.980	5.76
830711	1130	11861	7.33	0.2<W	0.024	3.970	5.74
830720	1500	11866	7.16	0.2<T	0.020	6.080	6.05
830726	1305	11871	7.10	1.0	0.027	2.040	6.97
830802	1350	11876	7.42	0.2<T	0.021	1.96	5.56
830808	1105	11881	7.49	1.4	0.080	1.990	6.24
830817	1200	11886	8.76	0.6<T	0.024	2.540	10.97
830825	1410	11891	7.57	0.2<W	0.187	2.570	13.46
MAXIMUM		8.76	3.0	0.187	6.760	13.46	5.80
ARITH MEAN		7.53	0.8<A	0.051	3.77	7.35	3.37
GEOM MEAN		7.52	0.5<A	0.036	3.33	6.96	3.19
MINIMUM		7.10	0.2	0.020	1.96	5.40	2.20
STD DEV (GEOM *)		0.49	0.9<A	0.055	1.99	2.86	1.25
# SAMP IN STATISTICS		9	9	9	9	9	9
% SAMP (EXCLUDED)							

## 1983 WATER QUALITY DATA REGION 5

319

B.D.W./ SITE: GROUNDHOG RIVER  
 SAMPLE POINT: HIGHWAY 11 BRIDGE IN FAUQUIER  
 STATION TYPE: RIVER FLOW GAUGE FED 04LD001

STATION ID: 19-0064-016-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 49 18 48.26 LONG: 082 02 31.84 U T M: 17 0424250.0 5462600.0 4 REGION: 05 DISTANCE: 300.134

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWFLOW
				ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	STREAM
SAMPLE		SAMPLE	PROJECT	TOTAL	UNF. TOT.	UNF. REAC	25C	UNF. TOT.	OXYGEN	UNF. TOT.	FLOW
DATE	HOUR	NUMBER	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	M3
YYMMDD	LMT		CODE	AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	/S
830517	0930	13715	0101	37.6	0.730	0.55	81.7	0.008		0.775	720.000
830518	0835	11603	0101	36.7	0.540	0.46	80.2	0.006	12.00	0.630	657.000
830519		13716	0101	39.0	0.530	0.71	83.6	0.020	12.90	0.410	627.000
830520		13717	0101	38.8	0.710	0.58	81.3	0.005	11.70	0.860	625.000
830602	1000	13718	0101	41.2	0.360	0.44	87.5	0.004		0.910	974.000
MAXIMUM		0.30		41.2	0.730	0.71	87.5	0.020	12.90	0.910	974.000
ARITH MEAN		0.30		38.7	0.574	0.55	82.9	0.009	12.20	0.717	720.600
GEOM MEAN				38.6	0.557	0.54	82.8	0.007	12.19	0.690	710.102
MINIMUM		0.30		36.7	0.360	0.44	80.2	0.004	11.70	0.410	625.000
STD DEV (GEOM *)				1.7	0.151	0.11	2.9	0.007	0.62	0.202	146.763
# SAMP IN STATISTICS		4		5	5	5	5	5	3	5	5
% SAMP (EXCLUDED)											
*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR	NNOTFR	NNTKUR	PBUT	PH	PHNOL	PP04FR
				NICKEL	NH3-N	NO2+NO3N	K'DAHL N	LEAD		PHENOLS	P04
SAMPLE		SAMPLE	WATER	UNF. TOT.	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.		UNF. REAC	FIL. REAC
DATE	HOUR	NUMBER	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L		UG/L	MG/L
YYMMDD	LMT		DEG. C	AS NI	AS N	AS N	AS N	AS PB	PH	PHENOL	AS P
830517	0930	13715		0.005	0.100			0.019	7.64	0.4<T	0.0040
830518	0835	11603	3	0.001	0.012			0.003<		1.2	0.0015<T
830519		13716		0.010<	0.006			0.030<	7.24	1.6	0.0040
830520		13717		0.002	0.012	0.235	0.570	0.003	7.76	0.4<T	0.0005<W
830602	1000	13718		0.001	0.014			0.003<	7.42	0.6<T	0.0020<T
MAXIMUM			8.0	0.005	0.100	0.235	0.570	0.019	7.76	1.6	0.0040
ARITH MEAN			7.3	0.002	0.029	0.235	0.570	0.011	7.51	0.8<A	0.0024<A
GEOM MEAN			7.2		0.016				7.51	0.7<A	0.0019<A
MINIMUM			6.8	0.001	0.006	0.235	0.570	0.003	7.24	0.4	0.0005
STD DEV (GEOM *)			0.6		0.040				0.23	0.5<A	0.0016<A
# SAMP IN STATISTICS			3	4	5	1	1	2	4	5	5
% SAMP (EXCLUDED)				20				60			

( C O N T D )



## 1983 WATER QUALITY DATA REGION 5

320

B.O.W./ SITE: GROUNDHOG RIVER  
 SAMPLE POINT: HIGHWAY 11 BRIDGE IN FAUQUIER  
 STATION TYPE: RIVER FLOW GAUGE FED 04LD001

STATION ID: 19-0064-016-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 49 18 48.26 LONG: 082 02 31.84

U T M: 17 0424250.0 5462600.0 4 REGION: 05

DISTANCE: 300.134

*=INTERIM TEST-NAME:		PPUT PHOSPHOR	RSP RESIDUE	SS04UR SULPHATE	TURB TURB'ITY	ZNUT ZINC
SAMPLE DATE YYMMDD	TIME HOUR LMT	UNF.TOT. MG/L AS P	PARTIC. MG/L	UNF.REAC MG/L AS S04	FTU	UNF.TOT. MG/L AS ZN
830517	0930	13715	0.065	16.800	15.00	0.003
830518	0835	11603	0.032	28.000	10.50	0.008
830519		13716	0.105	13.100	8.40	0.010<
830520		13717	0.057	25.600	4.05	0.003
830602	1000	13718	0.067	26.200	7.40	0.002
MAXIMUM		0.105	28.000	4.05	15.00	0.008
ARITH MEAN		0.065	21.940	4.05	9.48	0.004
GEOM MEAN		0.061	21.050		9.02	
MINIMUM		0.032	13.100	4.05	6.10	0.002
STD DEV (GEOM *)		0.026	6.573		3.48	
# SAMP IN STATISTICS		5	5	1	5	4
% SAMP (EXCLUDED)						20

## 1983 WATER QUALITY DATA REGION 5

321

B.O.W./ SITE: IVANHOE RIVER  
 SAMPLE POINT: HIGHWAY 101 AND RAILROAD BRIDGE FOLOYET  
 STATION TYPE: RIVER

STATION ID: 19-0064-019-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 48 15 13.50 LONG: 082 26 55.92 U T M: 17 0392450.0 5345300.0 4 REGION: 05 DISTANCE: 459.455

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ALUT	CLIDUR	COND25	CUUT	DO	FEUT	FWSTRC
SAMPLE		SAMPLE	PROJECT	ALK	ALUMINUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	IRON	
DATE	HOUR	DEPTH	SUB-PROJ	TOTAL	UNF.TOT.	UNF.REAC	25C	UNF.TOT.	OXYGEN	UNF.TOT.	STREAM
YYMMDD	LMT	M	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	COND.
				AS CAC03	AS AL	AS CL-	AT 25 C	AS CU	AS O	AS FE	
830518	1210	11602	0101	51.9	1.000	0.46	114.2	0.009	11.00	1.040	3
830628	1930	11604	0101	51.8	0.094	0.41	110.6	0.004	7.00	0.170	
830715	0945	11605	0101	56.7	0.170	0.50	119.8	0.003	7.80	0.245	
830829		11606	0101	65.9	0.058	0.35	135.0	0.005	7.40	0.100	
830929	1200	11607	0101	70.6	0.060	0.66	138.0	0.001<	8.20	0.145	
831107	1030	11608	0101	67.5	0.026	0.68	139.0	0.002	10.40	0.085	
831129	0430	11609	0101						10.40		

MAXIMUM	0.30		70.6	1.000	0.68	139.0	0.009	11.00	1.040	
ARITH MEAN	0.30		60.7	0.235	0.51	126.1	0.005	8.89	0.297	
GEOM MEAN			60.3	0.106	0.50	125.6		8.75	0.194	
MINIMUM	0.30		51.8	0.026	0.35	110.6	0.002	7.00	0.085	
STD DEV (GEOM *)			8.3	0.378	0.13	12.7		1.66	0.368	
# SAMP IN STATISTICS	7		6	6	6	6	5	7	6	
% SAMP (EXCLUDED)							16			

*INTERIM TEST-NAME:		FWTEMP	NIUT	NNHTFR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP	TURB
SAMPLE		WATER	NICKEL	TOTAL	LEAD		PHENOLS	P04	PHOSPHOR		
DATE	HOUR	TEMP	UNF.TOT.	FIL.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	RESIDUE	TURB'ITY
YYMMDD	LMT	DEG.C	MG/L	MG/L	MG/L		UG/L	MG/L	MG/L	PARTIC.	FTU
			AS NI	AS N	AS PB	PH	PHENOL	AS P	AS P	MG/L	
830518	1210	9.0	0.002	0.016	0.003<		1.0	0.0040	0.066	149.000	30.00
830628	1930	16.0	0.001	0.022	0.003<	7.62	1.0	0.0010<T	0.012	5.440	2.20
830715	0945	23.0	0.002<	0.004<T	0.003<	7.58	0.2<T	0.0010<T	0.015	7.990	5.80
830829		21.0	0.002<	0.016	0.003<	7.72		0.0035	0.013	3.600	2.90
830929	1200	15.0	0.001	0.046	0.003<	7.80	0.6<T	0.0010<T	0.031	3.600	1.50
831107	1030	4.5	0.003	0.028	0.003<	8.02	1.2	0.0010<T	0.019	2.130	3.80
831129	0430	1.0									

MAXIMUM	23.0	0.003	0.046		8.02	1.2	0.0040	0.066	149.000	30.00
ARITH MEAN	12.8	0.002	0.022<A		7.75	0.8<A	0.0019<A	0.026	28.627	7.70
GEOM MEAN	9.0		0.018<A		7.75	0.7<A	0.0016<A	0.021	7.506	4.30
MINIMUM	1.0	0.001	0.004		7.58	0.2	0.0010	0.012	2.130	1.50
STD DEV (GEOM *)	8.3		0.014<A		0.17	0.4<A	0.0014<A	0.021	59.005	11.03
# SAMP IN STATISTICS	7	4	6		5	5	6	6	6	6
% SAMP (EXCLUDED)		33								

( C O N T D )

## 1983 WATER QUALITY DATA REGION 5

322

B.O.W./ SITE: IVANHOE RIVER  
SAMPLE POINT: HIGHWAY 101 AND RAILROAD BRIDGE FOLOYET  
STATION TYPE: RIVER

STATION ID: 19-0064-019-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
MINOR BASIN: JAMES BAY SHORE  
TERM STREAM: MOOSE RIVER

STORET CODE: 04  
001  
0230

LAT: 48 15 13.50 LONG: 082 26 55.92

U T M: 17 0392450.0 5345300.0 4

REGION: 05

DISTANCE: 459.455

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830518	1210	11602	0.005
830628	1930	11604	0.001<
830715	0945	11605	0.002
830829		11606	0.001<
830929	1200	11607	0.001<
831107	1030	11608	0.001<

MAXIMUM 0.005  
ARITH MEAN 0.003  
GEOM MEAN  
MINIMUM 0.002  
STD DEV (GEOM \*)  
# SAMP IN STATISTICS 2  
% SAMP (EXCLUDED) 66

## 1983 WATER QUALITY DATA REGION 5

323

B.O.W./ SITE: ABITIBI RIVER  
 SAMPLE POINT: AT HIGHWAY NO 574  
 STATION TYPE: RIVER

STATION ID: 19-0064-023-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 49 03 32.25 LONG: 080 51 47.24 U T M: 17 0510000.0 5433800.0 4 REGION: 05 DISTANCE: 283.720

*INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5	CLIDUR	COD	COND25	DO	FWTEMP	NNOTFR	NNTKUR
				BOD							
				5 DAY	CHLORIDE	CHEM. OX	CONDUCT.	DISOLVED			
				TOT. DEM.	UNF. REAC	DEMAND	25C	OXYGEN	WATER	NO2+NO3N	K'DAHL N
				MG/L	MG/L	MG/L	UMHO/CM	MG/L	TEMP	FIL. REAC	UNF. REAC
				AS O	AS CL-	AS O	AT 25 C	AS O	DEG.C	AS N	AS N
SAMPLE	DATE HOUR	SAMPLE	SAMPLE	PROJECT							
DATE	YMMDD LMT	NUMBER	DEPTH	SUB-PROJ							
			M	CODE							
830628	1200	11852	0.30	0101	0.75	0.56	26.5	99.1	8.27	16.0	0.185
830705	1340	11857	0.30	0101	0.87	0.42	30.1	102.7	8.00	18.0	0.160
830711	1315	11862	0.30	0101	1.79	0.61	40.0	102.0	7.00	19.0	0.120
830720	1630	11867	0.30	0101	2.50	0.48	43.6	103.0	7.00	20.0	0.100
830726	1450	11872	0.30	0101	1.05	0.58	31.7	99.0	6.00	21.0	0.225
830802	1510	11877	0.30	0101	0.71	0.57	33.1	106.5	7.00	21.0	0.220
830808	1210	11882	0.30	0101		0.56	49.9	103.0	5.00	20.0	0.095
830817	1410	11887	0.30	0101	0.81	1.35	27.7	104.5	6.00	20.0	0.250
830825	1540	11892	0.30	0101	0.94	0.85	58.2	114.0	6.00	19.0	0.050
MAXIMUM		0.30			2.50	1.35	58.2	114.0	8.27	21.0	0.250
ARITH MEAN		0.30			1.18	0.66	37.9	103.8	6.70	19.3	0.156
GEOM MEAN					1.07	0.63	36.6	103.7	6.62	19.3	0.140
MINIMUM		0.30			0.71	0.42	26.5	99.0	5.00	16.0	0.050
STD DEV (GEOM *)					0.64	0.28	10.9	4.5	1.05	1.6	0.069
# SAMP IN STATISTICS		9			8	9	9	9	9	9	9
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		PH	PHNOL	PPUT	RSP	SSO4UR	TURB
			PHENOLS	PHOSPHOR		SULPHATE	
			UNF-REAC	UNF. TOT.	RESIDUE	UNF. REAC	
			UG/L	MG/L	PARTIC.	MG/L	
			PHENOL	AS P	MG/L	AS SO4	TURB'ITY
		PH					FTU
SAMPLE	DATE HOUR	SAMPLE					
DATE	YMMDD LMT	NUMBER					
830628	1200	11852	7.53	3.6	0.065	12.900	5.65
830705	1340	11857	7.43	0.6<T	0.045	14.500	5.13
830711	1315	11862	6.90	0.2<W	0.047	8.840	6.71
830720	1630	11867	7.38	0.2<W	0.052	13.900	7.77
830726	1450	11872	7.28	0.2<W	0.057	18.300	6.05
830802	1510	11877	7.47	0.2<W	0.065	14.000	4.92
830808	1210	11882	7.06	2.8	0.042	19.500	8.41
830817	1410	11887	8.75	0.2<W	0.056	9.460	6.06
830825	1540	11892	7.18	0.2<W	0.045	22.100	8.60
MAXIMUM		8.75	3.6	0.065	22.100	8.60	42.00
ARITH MEAN		7.44	0.9<A	0.053	14.833	6.55	31.33
GEOM MEAN		7.43	0.4<A	0.052	14.235	6.43	30.66
MINIMUM		6.90	0.2	0.042	8.840	4.92	20.00
STD DEV (GEOM *)		0.53	1.3<A	0.009	4.427	1.34	6.75
# SAMP IN STATISTICS		9	9	9	9	9	9
% SAMP (EXCLUDED)							

## 324

STORET CODE: 04  
001  
0230

**DISTANCE: 353.241**

*=INTERIM	TEST-NAME:	FWSADP	FWDPTS	FGPROJ	CLIDUR	COND25	DO	FWSTRC	FWTEMP	NNHTFR NH3-N	NNOTFR	
SAMPLE DATE	HOUR	SAMPLE NUMBER	SAMPLE DEPTH M	WATER DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	DISSOLVED OXYGEN MG/L AS O	STREAM COND.	WATER TEMP DEG.C	TOTAL FIL.REAC MG/L AS N	N02+N03N FIL.REAC MG/L AS N
830523	1440	11949	0.30	0.30	0101	0.25	74.9	7.00	3 9 8	8.0	0.020	0.005<T
830605	1615	11953	0.30		0101	0.17<T	70.4	12.00	8	13.0	0.014	0.015
830628	1830	11957	0.30		0101	0.29	99.9	8.00	8	22.0	0.030	0.050
830721	1330	11961	0.30		0101	0.24	119.0	6.00	8	25.0	0.038	0.015
830828	1545	11965	0.30		0101	0.28	144.0	8.00	8	24.0	0.030	0.020
830927	1840	11969	0.30		0101	0.22	80.5	9.00	8	12.0	0.016	0.025
831019	1400	11973	0.30		0101	0.56	74.9	11.00	3	6.0	0.016	0.065
831123	1515	11977	0.30		0101	2.35	115.4	13.00	4		0.006	0.105
831229	1330	11981	0.30		0101	0.40	133.0	13.00	4		0.020	0.205
		MAXIMUM	0.30	0.30		2.35	144.0	13.00		25.0	0.038	0.205
		ARITH MEAN	0.30	0.30		0.53<A	101.3	9.67		15.7	0.021	0.056<A
		GEOM MEAN				0.36<A	98.0	9.34		13.9	0.019	0.032<A
		MINIMUM	0.30	0.30		0.17	70.4	6.00		6.0	0.006	0.005
		STD DEV (GEOM *)				0.69<A	27.7	2.65		7.8	0.010	0.064<A
# SAMP IN STATISTICS		9		1		9	9	9		7	9	9
% SAMP (EXCLUDED)												
*=INTERIM	TEST-NAME:	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	RSP	TURB					
SAMPLE DATE	HOUR	SAMPLE NUMBER	UNF.REAC MG/L AS N	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	TURB'ITY FTU					
YYMMDD	LMT											
830523	1440	11949	0.580	7.10	0.1400	0.181	9.060	6.90				
830605	1615	11953	0.470	7.43	0.1730	0.205	7.060	2.40				
830628	1830	11957	0.700	7.52	0.0020<T	0.020	4.080	3.50				
830721	1330	11961	0.600	7.65	0.0050	0.025	3.800	5.20				
830828	1545	11965	0.650	7.95	0.0050	0.027	3.060	7.60				
830927	1840	11969	0.720	7.41	0.0010<T	0.015	2.670	4.20				
831019	1400	11973	0.890	7.29	0.0010<T	0.017	19.600	4.20				
831123	1515	11977	0.700	7.44	0.0030	0.019	6.370	6.10				
831229	1330	11981	0.630	7.39	0.0040	0.013	3.160	5.90				
		MAXIMUM	0.890	7.95	0.1730	0.205	19.600	7.60				
		ARITH MEAN	0.660	7.46	0.0371<A	0.058	6.540	5.11				
		GEOM MEAN	0.651	7.46	0.0062<A	0.032	5.281	4.84				

## 1983 WATER QUALITY DATA REGION 5

325

B.O.W./ SITE: MATTAWISHKWINA RIVER  
 SAMPLE POINT: PRUNE CREEK AT JOGUES  
 STATION TYPE: RIVER

STATION ID: 19-0064-026-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 49 35 35.92 LONG: 083 44 20.83 U T M: 17 0302050.0 5496800.0 4 REGION: 05 DISTANCE: 361.990

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	DO	FWSTRC	FWTEMP	NNHTFR NH3-N	NNOTFR	NNTKUR K'DAHL N
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	DISSOLVED OXYGEN MG/L AS O	STREAM COND.	WATER TEMP DEG.C	TOTAL FIL.REAC MG/L AS N	TOTAL NO2+NO3N FIL.REAC MG/L AS N
830523	1520	11950	0.30	0101	0.70	91.0	10.00	3	8.0	0.066	0.035
830605	1645	11954	0.30	0101	0.20	77.5	7.00	8	15.0	0.016	0.040
830628	1905	11958	0.30	0101	1.00	141.0	7.00	8	22.0	0.066	0.060
830721	1410	11962	0.30	0101	2.18	199.0	7.00	9	25.0	0.004<T	0.190
830828	1615	11966	0.30	0101	3.79	231.0	8.00	9	24.0	0.140	0.020
830927	1900	11970	0.30	0101	0.70	147.0	10.00	8	13.0	0.020	0.035
831019	1645	11974	0.30	0101	0.78	89.9	4.00	3	5.0	0.014	0.065
831123	1600	11978	0.30	0101	1.46	132.0	5.00	4		0.032	0.130
831229	1400	11982	0.30	0101	0.93	165.0	10.00	4		0.008	0.265
MAXIMUM		0.30			3.79	231.0	10.00		25.0	0.140	0.265
ARITH MEAN		0.30			1.30	141.5	7.56		16.0	0.041<A	0.093
GEOM MEAN					0.98	133.2	7.24		14.0	0.024<A	0.066
MINIMUM		0.30			0.20	77.5	4.00		5.0	0.004	0.020
STD DEV (GEOM *)					1.09	51.6	2.19		7.9	0.044<A	0.084
# SAMP IN STATISTICS		9			9	9	9		7	9	9
% SAMP (EXCLUDED)											

*=INTERIM TEST-NAME:		PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	TURB TURB'ITY FTU
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	PH	MG/L AS P	MG/L AS P	MG/L
830523	1520	11950	7.19	0.1120	0.168	28.200
830605	1645	11954	7.23	0.1600	0.200	8.490
830628	1905	11958	7.53	0.1400	0.235	15.200
830721	1410	11962	7.47	0.0450	0.095	5.680
830828	1615	11966	8.03	0.0260	0.080	11.700
830927	1900	11970	7.47	0.0130	0.052	8.610
831019	1645	11974	7.25	0.0030	0.028	5.880
831123	1600	11978	7.30	0.0060	0.027	5.750
831229	1400	11982	7.13	0.0105	0.036	9.720
MAXIMUM		8.03	0.1600	0.235	28.200	37.00
ARITH MEAN		7.40	0.0573	0.102	11.026	17.93
GEOM MEAN		7.40	0.0268	0.076	9.587	14.98
MINIMUM		7.13	0.0030	0.027	5.680	5.50
STD DEV (GEOM *)		0.27	0.0625	0.079	7.156	11.26
# SAMP IN STATISTICS		9	9	9	9	9
% SAMP (EXCLUDED)						

## 326

STATION ID: 19-0064-027-02

STORET CODE: 04  
001  
0230

LAT: 49 38 37.30 LONG: 083 32 30.36 U T M: 17 0316500.0 5501900.0 4 REGION: 05 DISTANCE: 350.390

*INTERIM TEST-NAME:			PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	TURB TURB'ITY FTU
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	PH	MG/L AS P	MG/L AS P	MG/L	
830523	1620	11952	6.65	0.0590	0.085	4.990	3.40
830605	1735	11956	6.71	0.1380	0.043	3.850	2.30
830628	1800	11960	6.80	0.1700	0.250	8.210	5.30
830721	1500	11964	7.15	0.0060	0.040	5.790	7.10
830828	1700	11968	7.80	0.0030	0.029	4.160	6.20
830927	1940	11972	6.95	0.0020<T	0.022	5.000	5.70
831019	1910	11976	6.74	0.0020<T	0.019	1.720	2.70
*831123	1700	11980	6.61	0.0020<T	0.015	1.820	3.20
831229	1500	11984	6.40	0.0025	0.023	6.310	8.10
MAXIMUM			7.80	0.1700	0.250	8.210	8.10
ARITH MEAN			6.87	0.0427<A	0.058	4.650	4.89
GEOM MEAN			6.86	0.0093<A	0.038	4.163	4.48
MINIMUM			6.40	0.0020	0.015	1.720	2.30
STD DEV (GEOM *)			0.41	0.0662<A	0.075	2.075	2.07
# SAMP IN STATISTICS			9	9	9	9	9
% SAMP (EXCLUDED)							

## 1983 WATER QUALITY DATA REGION 5

327

B.O.W./ SITE: KAPUSKASING RIVER  
 SAMPLE POINT: BELOW BIG BEAVER FALLS  
 STATION TYPE: RIVER

STATION ID: 19-0064-028-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 49 17 38.09 LONG: 082 32 20.20

U T M: 17 0388100.0 5461050.0 4

REGION: 05

DISTANCE: 315.179

*INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5 5 DAY TOT.DEM.	CLIDUR CHLORIDE UNF.REAC	COD CHEM. OX DEMAND	COND25 CONDUCT. 25C	DO DISOLVED OXYGEN	FWTEMP WATER TEMP	NNOTFR NO2+NO3N FIL.REAC	NNTKUR K'DAHL N TOTAL UNF.REAC
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	MG/L AS O	MG/L AS CL-	UMHO/CM AT 25 C	MG/L AS O	DEG.C	MG/L AS N	MG/L AS N
830711	1210	11804	0.30	0101	0.75	0.44	123.0	7.30	24.0	0.045	0.510
830718	1150	11808	0.30	0101	1.20	0.30	114.1	7.20	22.0	0.085	0.590
830725	1040	11812	0.30	0101	0.90	0.44	118.6	7.00	22.0	0.060	0.550
830802	1415	11816	0.30	0101	0.69	0.69	129.0	6.99	24.0	0.005<T	0.500
830814	1035	11824	0.30	0101	0.59	0.50	138.0	7.00	22.0	0.030	0.520
830823	1145	11828	0.30	0101	0.66	0.50	146.0	7.13	18.0	0.010<T	0.480
MAXIMUM		0.30			1.20	0.50	146.0	7.30	24.0	0.085	0.590
ARITH MEAN		0.30			0.80	0.44	128.1	7.10	22.0	0.039<A	0.525
GEOM MEAN					0.78	0.43	127.6	7.10	21.9	0.026<A	0.524
MINIMUM		0.30			0.59	0.30	114.1	6.99	18.0	0.005	0.480
STD DEV (GEOM *)					0.22	0.08	17.3	0.13	2.2	0.031<A	0.039
# SAMP IN STATISTICS		6			6	5	6	6	6	6	6
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		PH	PHNOL PHENOLS UNF-REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	SS04UR SULPHATE UNF.REAC	TURB TURB'ITY FTU
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	UG/L PHENOL	MG/L AS P	MG/L	MG/L AS S04	
830711	1210	11804	7.70	0.2<T	0.016	3.910	4.12
830718	1150	11808	7.85	1.6	0.020	4.270	3.13
830725	1040	11812	7.80	0.2<M	0.050	1.600	3.27
830802	1415	11816	7.64	0.020	0.020	3.660	2.77
830814	1035	11824	7.80	0.2<M	0.031	2.740	3.72
830823	1145	11828	7.82	0.2<M	0.010	3.360	3.69
MAXIMUM		7.85	1.6	0.050	4.270	4.12	3.90
ARITH MEAN		7.77	0.5<A	0.024	3.257	3.45	2.60
GEOM MEAN		7.77	0.3<A	0.022	3.107	3.42	2.51
MINIMUM		7.64	0.2	0.010	1.600	2.77	1.90
STD DEV (GEOM *)		0.08	0.6<A	0.014	0.963	0.49	0.77
# SAMP IN STATISTICS		6	5	6	6	6	6
% SAMP (EXCLUDED)							



## 1983 WATER QUALITY DATA REGION 5

328

B.O.W./ SITE: KAPUSKASING RIVER  
 SAMPLE POINT: UPSTR LOST RIVER  
 STATION TYPE: RIVER

STATION ID: 19-0064-029-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 49 33 34.74 LONG: 082 21 58.09 U T M: 17 0401200.0 5490350.0 4 REGION: 05 DISTANCE: 281.287

*INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5 5 DAY TOT.DEM.	CLIDUR CHLORIDE UNF.REAC	COD CHEM. OX DEMAND	COND25 CONDUCT. 25C	DO DISOLVED OXYGEN	FWTEMP WATER TEMP	NNOTFR NO2+NO3N FIL.REAC	NNTKUR K'DAHL N TOTAL UNF.REAC
DATE	HR	SAMPLE DEPTH	PROJECT SUB-PROJ	MG/L AS O	MG/L AS CL-	MG/L AS O	UMHO/CM AT 25 C	MG/L AS O	DEG.C	MG/L AS N	MG/L AS N
YYMMDD	LMT	NUMBER	CODE								
830705	1640	11801	0101	0.83	0.35	42.2	124.1	8.00	20.0	0.040	0.500
830711	1730	11806	0101	1.67	0.60	40.2	129.5	6.45	24.0	0.010<T	0.470
830718	1500	11810	0101	1.74	0.54	45.6	132.0	5.87	22.0	0.015	0.540
830725	1600	11814	0101	2.13	0.72	62.4	128.0	4.65	22.0	0.025	0.850
830802	1145	11818	0101	4.80		66.5	143.0	3.20	24.0	0.010<T	0.520
830808	1035	11822	0101	2.54		60.0	144.0	3.71	24.0	0.010<T	0.600
830814	1355	11826	0101	3.72	0.87	71.0	152.0	2.70	22.0	0.005<T	0.620
830823	0830	11830	0101	5.96	0.92	81.6	158.0	2.50	18.0	0.010<T	0.550
830831	1049	11834	0101	4.10	1.13	74.7	180.0	2.30	22.0	0.005<T	0.620
MAXIMUM		0.30		5.96	1.13	81.6	180.0	8.00	24.0	0.040	0.850
ARITH MEAN		0.30		3.05	0.73	60.5	143.4	4.38	22.0	0.014<A	0.586
GEOM MEAN				2.61	0.69	58.7	142.5	4.00	21.9	0.012<A	0.577
MINIMUM		0.30		0.83	0.35	40.2	124.1	2.30	18.0	0.005	0.470
STD DEV (GEOM *)				1.69	0.26	14.9	17.9	2.01	2.0	0.011<A	0.112
# SAMP IN STATISTICS		9		9	7	9	9	9	9	9	9
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		PH	PHNOL PHENOLS UNF-REAC	PPT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	SS04UR SULPHATE UNF.REAC	TURB TURB'ITY FTU
DATE	HR	SAMPLE DEPTH	MG/L AS P	MG/L AS P	MG/L	MG/L AS SO4	
YYMMDD	LMT	NUMBER	PHENOL				
830705	1640	11801	7.84	1.2	0.020	4.240	3.77
830711	1730	11806	7.57	1.0	0.012	6.150	5.67
830718	1500	11810	7.56	1.6	0.023	4.710	5.27
830725	1600	11814	7.02	0.4<T	0.045	5.890	5.58
830802	1145	11818	7.13		0.027	8.660	8.00
830808	1035	11822	7.38		0.035	2.240	6.49
830814	1355	11826	7.10	0.2<W	0.034	6.790	9.61
830823	0830	11830	7.33	1.6	0.023	3.850	9.77
830831	1049	11834	6.83	3.0	0.032	6.310	15.58
MAXIMUM		7.84	3.0	0.045	8.660	15.58	8.50
ARITH MEAN		7.31	1.3<A	0.028	5.427	7.75	4.17
GEOM MEAN		7.30	1.0<A	0.026	5.095	7.13	3.41
MINIMUM		6.83	0.2	0.012	2.240	3.77	0.60
STD DEV (GEOM *)		0.32	0.9<A	0.010	1.884	3.56	2.36
# SAMP IN STATISTICS		9	7	9	9	9	9
% SAMP (EXCLUDED)							

## 1983 WATER QUALITY DATA REGION 5

329

B.O.W./ SITE: ABITIBI RIVER  
 SAMPLE POINT: UPSTR.OF ABITIBI MILL DISCHARGE  
 STATION TYPE: RIVER

STATION ID: 19-0064-031-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 48 45 42.12 LONG: 080 40 03.56

U T M: 17 0524425.0 5400800.0 4

REGION: 05

DISTANCE: 373.840

*INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5	CLIDUR	COD	COND25	DO	FWTEMP	NNOTFR	NNTKUR
				BOD							K'DAHL N
				5 DAY	CHLORIDE	CHEM. OX	CONDUCT.	DISOLVED		NO2+NO3N	TOTAL
SAMPLE		SAMPLE	PROJECT	TOT.DEM.	UNF.REAC	DEMAND	25C	OXYGEN	WATER	FIL.REAC	UNF.REAC
DATE	HR	DEPTH	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	TEMP	MG/L	MG/L
YYMMDD	LMT	M	CODE	AS O	AS CL-	AS O	AT 25 C	AS O	DEG.C	AS N	AS N
830628	1030	11853	0101	0.68	0.47	32.5	88.7	8.00	16.0	0.175	0.470
830705	1520	11858	0101	0.65	0.58	27.1	91.0	8.00	17.0	0.175	0.490
830711	1420	11863	0101	0.60	0.44	28.8	94.6	8.00	18.0	0.220	0.420
830720	1800	11868	0101	1.28	0.44	20.6	93.4	7.00	20.0	0.215	0.400
830726	1650	11873	0101	0.67	0.49	29.7	92.1	7.00	20.0	0.225	0.450
830802	1620	11878	0101	0.44<T	0.50	31.1	99.6	7.00	20.0	0.205	0.350
830808	1345	11883	0101		0.50	26.6	96.5	6.00	20.0	0.215	0.420
830817	1530	11888	0101	0.36<T	0.60	29.7	106.0	7.00	20.0	0.195	0.390
830825	1700	11893	0101	0.34<T	0.81	30.5	103.3	7.00	19.0	0.165	0.440
MAXIMUM		0.30		1.28	0.81	32.5	106.0	8.00	20.0	0.225	0.490
ARITH MEAN		0.30		0.63<A	0.54	28.5	96.1	7.22	18.9	0.199	0.426
GEOM MEAN				0.58<A	0.53	28.3	96.0	7.19	18.8	0.198	0.424
MINIMUM		0.30		0.34	0.44	20.6	88.7	6.00	16.0	0.165	0.350
STD DEV (GEOM *)				0.30<A	0.12	3.5	5.8	0.67	1.5	0.022	0.043
# SAMP IN STATISTICS		9		8	9	9	9	9	9	9	9
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		PH	PHNOL	PPUT	RSP	SS04UR	TURB
			PHENOLS	PHOSPHOR		SULPHATE	
			UNF-REAC	UNF.TOT.	RESIDUE	UNF.REAC	
SAMPLE			UG/L	MG/L	PARTIC.	MG/L	TURB*ITY
DATE	HR	SAMPLE		AS P	MG/L	AS S04	FTU
YYMMDD	LMT	NUMBER	PH	PHENOL			
830628	1030	11853	7.38	2.6	0.035	9.400	5.13
830705	1520	11858	7.25	1.0	0.036	10.300	5.13
830711	1420	11863	7.22	0.2<W	0.040	11.900	5.23
830720	1800	11868	7.35	0.2<W	0.133	9.090	5.53
830726	1650	11873	7.31	0.4<T	0.155	11.400	5.87
830802	1620	11878	7.54	0.2<W	0.040	13.300	5.07
830808	1345	11883	7.40	0.4<T	0.047	9.340	5.85
830817	1530	11888	8.77	0.2<W	0.051	8.430	5.97
830825	1700	11893	7.63	0.2<W	0.078	11.800	5.86
MAXIMUM		8.77	2.6	0.155	13.300	5.97	46.00
ARITH MEAN		7.54	0.6<A	0.068	10.551	5.52	36.39
GEOM MEAN		7.53	0.4<A	0.058	10.442	5.50	35.73
MINIMUM		7.22	0.2	0.035	8.430	5.07	26.50
STD DEV (GEOM *)		0.48	0.8<A	0.045	1.626	0.38	7.19
# SAMP IN STATISTICS		9	9	9	9	9	9
% SAMP (EXCLUDED)							

## 1983 WATER QUALITY DATA REGION 5

330

B.O.W./ SITE: ABITIBI RIVER  
 SAMPLE POINT: UPSTR.FROM ABITIBI IROQUOIS FALLS DAM  
 STATION TYPE: RIVER FLOW GAUGE FED 04MC001

STATION ID: 19-0064-032-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 48 45 25.98 LONG: 080 40 22.04

U T M: 17 0524050.0 5400300.0 4

REGION: 05

DISTANCE: 373.519

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5	CLIDUR	COD	COND25	DO	FWFLOW	FWTEMP	NNOTFR
				BOD 5 DAY TOT.DEM.	CHLORIDE UNF.REAC MG/L	CHEM. OX DEMAND MG/L	CONDUCT. 25C UMHO/CM AT 25 C	DISOLVED OXYGEN MG/L	STREAM FLOW M3 /S	WATER TEMP DEG.C	NO2+NO3N FIL.REAC MG/L AS N
SAMPLE DATE	HR	SAMPLE NUMBER	SAMPLE DEPTH M	SUB-PROJ CODE	AS O	AS CL-	AS O	AS O			
YYMMDD	LMT										
830628	0930	11854	0.30	0101	0.65	0.48	33.5	91.0	169.000	16.0	0.170
830705	1600	11859	0.30	0101	0.65	0.42	31.1	92.7	165.000	17.0	0.175
830711	1445	11864	0.30	0101	0.73	0.49	30.8	96.3	145.000	21.0	0.215
830720	1830	11869	0.30	0101	2.24	0.42	29.6	95.5	173.000	21.0	0.225
830726	1700	11874	0.30	0101	0.97	0.48	27.7	91.9	93.600	23.0	0.220
830802	1650	11879	0.30	0101	0.74	0.84	31.1	110.0	160.000	23.0	0.195
830808	1415	11884	0.30	0101		0.54	24.6	99.0	140.000	20.0	0.210
830817	1600	11889	0.30	0101	0.41<T	0.61	28.7	107.0	113.000	20.0	0.190
830825	1720	11894	0.30	0101	0.30<T	0.74	32.6	105.5	180.000	19.0	0.160
MAXIMUM			0.30		2.24	0.84	33.5	110.0	180.000	23.0	0.225
ARITH MEAN			0.30		0.84<A	0.56	30.0	98.8	148.733	20.0	0.196
GEOM MEAN					0.70<A	0.54	29.9	98.5	145.831	19.9	0.194
MINIMUM			0.30		0.30	0.42	24.6	91.0	93.600	16.0	0.160
STD DEV (GEOM *)					0.60<A	0.15	2.7	7.1	29.102	2.4	0.024
# SAMP IN STATISTICS			9		8	9	9	9	9	9	9
% SAMP (EXCLUDED)											
*=INTERIM TEST-NAME:		NNTKUR	PH	PHNOL	PPUT	RSP	SS04UR	TURB			
		K'DAHL N TOTAL UNF.REAC		PHENOLS UNF-REAC UG/L	PHOSPHOR UNF.TOT. MG/L	RESIDUE PARTIC. MG/L	SULPHATE UNF.REAC MG/L	TURB'ITY FTU			
SAMPLE DATE	HR	SAMPLE NUMBER	AS N	PH	PHENOL AS P	MG/L	AS SO4				
YYMMDD	LMT										
830628	0930	11854	0.450	7.48	2.4	0.072	9.770	4.78	26.00		
830705	1600	11859	0.420	7.62	1.0	0.045	9.770	4.95	24.00		
830711	1445	11864	0.470	7.25	0.2<W	0.042	9.100	5.24	28.00		
830720	1830	11869	0.470	7.50	-0.2<T	0.183	8.890	5.42	34.00		
830726	1700	11874	0.500	7.50	0.4<T	0.138	14.900	5.62	34.00		
830802	1650	11879	0.400	7.61	0.2<W	0.040	10.400	4.76	35.00		
830808	1415	11884	0.450	7.37	0.2<T	0.050	11.200	5.82	37.00		
830817	1600	11889	0.400	8.76	0.2<W	0.051	12.500	5.77	40.00		
830825	1720	11894	0.650	7.65	0.2<W	0.055	9.580	6.02	45.00		
MAXIMUM			0.650	8.76	2.4	0.183	14.900	6.02	45.00		
ARITH MEAN			0.468	7.64	0.5<A	0.075	10.679	5.38	33.67		
GEOM MEAN			0.463	7.63		0.064	10.540	5.36	33.05		
MINIMUM			0.400	7.25	-0.2	0.040	8.890	4.76	24.00		
STD DEV (GEOM *)			0.076	0.44		0.051	1.938	0.47	6.76		
# SAMP IN STATISTICS			9	9	9	9	9	9	9		
% SAMP (EXCLUDED)											

## 1983 WATER QUALITY DATA REGION 5

331

B.O.W./ SITE: MATTAGAMI RIVER  
 SAMPLE POINT: 12MI.DOWNSTREAM FROM SMOOTH ROCK FALLS  
 STATION TYPE: RIVER

STATION ID: 19-0064-033-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 49 26 56.16 LONG: 081 39 14.14 U T M: 17 0452600.0 5477350.0 4 REGION: 05 DISTANCE: 297.399

*INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5	CLIDUR	COD	COND25	DO	FWTEMP	NNOTFR	NNTKUR	
				BOD								
				5 DAY	CHLORIDE	CHEM. OX	CONDUCT.	DISOLVED				
				TOT. DEM.	UNF. REAC	DEMAND	25C	OXYGEN	WATER	NO2+NO3N	K'DAHL N	
				MG/L	MG/L	MG/L	UMHO/CM	MG/L	TEMP	FIL. REAC	UNF. REAC	
				AS 0	AS CL-	AS 0	AT 25 C	AS 0	DEG.C	MG/L	MG/L	
										AS N	AS N	
830627	1520	11850	0.30	0101	0.83	0.70	29.5	89.8	9.00	20.0	0.070	0.570
830705	0947	11855	0.30	0101	1.28	0.95	30.1	99.2	8.00		0.065	0.500
830711	0945	11860	0.30	0101	0.63	0.87	32.8	102.6	9.00	19.0	0.095	0.420
830720	1200	11865	0.30	0101	1.42	5.14	41.6	119.3	5.09	21.0	0.025	0.410
830726	1100	11870	0.30	0101	1.14	6.66	39.6	131.0	4.09	22.0	0.020	0.970
830802	1130	11875	0.30	0101	0.67	2.76	41.2	123.0	4.01	20.0	0.015	0.400
830808	0930	11880	0.30	0101		4.08	33.7	137.0	4.62	22.0	0.010<T	0.420
830817	1000	11885	0.30	0101	1.10	6.64	27.7	148.0	4.51	21.0	0.005<T	0.390
830825	1140	11890	0.30	0101	0.44<T	8.00	45.4	162.0	3.47	20.0	0.010<T	0.420
MAXIMUM		0.30		1.42	8.00	45.4	162.0	9.00	22.0	0.095	0.970	
ARITH MEAN		0.30		0.94<A	3.98	35.7	123.5	5.75	20.6	0.035<A	0.500	
GEOM MEAN				0.88<A	2.84	35.2	121.5	5.40	20.6	0.023<A	0.478	
MINIMUM		0.30		0.44	0.70	27.7	89.8	3.47	19.0	0.005	0.390	
STD DEV (GEOM *)				0.35<A	2.80	6.3	23.7	2.25	1.1	0.033<A	0.185	
# SAMP IN STATISTICS		9		8	9	9	9	9	8	9	9	
% SAMP (EXCLUDED)												

*INTERIM TEST-NAME:		PH	PHNOL	PPUT	RSP	SSO4UR	TURB	
			PHENOLS	PHOSPHOR		SULPHATE		
			UNF-REAC	UNF. TOT.	RESIDUE	UNF. REAC		
			UG/L	MG/L	PARTIC.	MG/L		
				AS P	MG/L	AS SO4		
			PHENOL				TURB'ITY	
							FTU	
830627	1520	11850	7.37	7.4	0.062	5.880	5.62	4.80
830705	0947	11855	7.44	0.6<T	0.024	7.210	5.83	7.50
830711	0945	11860	7.63	0.2<W	0.025	6.370	5.65	4.30
830720	1200	11865	7.15	0.2<W	0.023	3.240	7.98	4.10
830726	1100	11870	7.12	17.0	0.027	4.060	10.11	3.50
830802	1130	11875	7.49	0.4<T	0.021	2.940	6.08	3.00
830808	0930	11880	7.27	2.2	0.020	2.260	7.78	2.10
830817	1000	11885	8.76	0.2<W	0.022	2.860	10.42	2.30
830825	1140	11890	7.08	0.8	0.092	2.190	16.46	1.85
MAXIMUM		8.76	17.0	0.092	7.210	16.46	7.50	
ARITH MEAN		7.48	3.2<A	0.035	4.112	8.44	3.72	
GEOM MEAN		7.46	0.9<A	0.030	3.753	7.91	3.39	
MINIMUM		7.08	0.2	0.020	2.190	5.62	1.85	
STD DEV (GEOM *)		0.51	5.7<A	0.025	1.892	3.53	1.75	
# SAMP IN STATISTICS		9	9	9	9	9	9	
% SAMP (EXCLUDED)								

## 1983 WATER QUALITY DATA REGION 5

332

B.O.W./ SITE: KAPUSKASING RIVER  
 SAMPLE POINT: AT SPRUCE FALLS MILL INTAKE  
 STATION TYPE: RIVER

STATION ID: 19-0064-034-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 49 24 36.14 LONG: 082 25 38.86 U T M: 17 0396450.0 5473800.0 4 REGION: 05 DISTANCE: 300.617

*INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5 5 DAY TOT.DEM.	CLIDUR CHLORIDE UNF.REAC	COD CHEM. OX DEMAND	COND25 CONDUCT. 25C	DO DISOLVED OXYGEN	FWSTRC STREAM COND.	FWTEMP WATER TEMP	NNOTFR NO2+NO3N FIL.REAC
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	MG/L AS O	MG/L AS CL-	MG/L AS O	UMHO/CM AT 25 C	MG/L AS O	DEG.C	MG/L AS N
830518	0730	11601	0.30	0101	1.16	0.31	43.4	81.4	12.00	3	0.130
830705	1845	11802	0.30	0101		1.02	46.3	134.0	6.92		0.015<T
830711	0940	11805	0.30	0101	0.67	0.45	34.1	123.5	5.62		0.005
830718	0825	11809	0.30	0101	0.95	0.33	34.6	124.9	5.30		0.035
830725	0850	11813	0.30	0101	1.23	2.09	44.6	120.6	4.63		0.030
830802	0910	11817	0.30	0101	1.37		58.4	133.0	3.11		0.030
830808	0815	11821	0.30	0101	0.78		40.8	135.0	3.60		0.030
830814	0825	11825	0.30	0101	0.56	0.46	44.9	139.0	2.62		0.025
830823	0915	11829	0.30	0101	0.92	0.40	43.2	150.0	2.72		0.010<T
830831	1215	11833	0.30	0101	2.00	0.53	34.4	149.0	2.50		0.005<T
MAXIMUM		0.30			2.00	2.09	58.4	150.0	12.00		0.130
ARITH MEAN		0.30			1.07	0.70	42.5	129.0	4.90		0.031<A
GEOM MEAN					1.00	0.56	41.9	127.5	4.32		0.020<A
MINIMUM		0.30			0.56	0.31	34.1	81.4	2.50		0.005
STD DEV (GEOM *)					0.44	0.61	7.3	19.4	2.90		0.036<A
# SAMP IN STATISTICS		10			9	8	10	10	10		10
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NNTKUR K'DAHL N TOTAL UNF.REAC	PH	PHNOL PHENOLS UNF-REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	SS04UR SULPHATE UNF.REAC	TURB TURBIDITY FTU
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	MG/L AS N	PH	UG/L PHENOL	MG/L AS P	MG/L AS S04	
830518	0730	11601	0.520	7.13	0.2<T	0.024	10.100	3.13
830705	1845	11802	0.510	7.40	0.8	0.020	7.5<0	6.62
830711	0940	11805	0.490	7.78	0.4<T	0.014	3.060	3.81
830718	0825	11809	0.500	7.57	1.4	0.018	3.180	3.49
830725	0850	11813	0.650	7.50	0.2<T	0.055	3.460	3.02
830802	0910	11817	0.500	7.16		0.022	13.000	2.69
830808	0815	11821	0.550	7.63		0.030	2.820	3.07
830814	0825	11825	0.660	7.36	-0.2<T	0.027	2.770	3.16
830823	0915	11829	0.540	7.53	0.2<H	0.016	1.280	3.09
830831	1215	11833	0.550	7.05	1.2	0.030	5.060	3.72

(CONT'D)

## 1983 WATER QUALITY DATA REGION 5

333

B.O.W./ SITE: KAPUSKASING RIVER  
 SAMPLE POINT: AT SPRUCE FALLS MILL INTAKE  
 STATION TYPE: RIVER

STATION ID: 19-0064-034-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 49 24 36.14 LONG: 082 25 38.86

U T M: 17 0396450.0 5473800.0 4

REGION: 05

DISTANCE: 300.617

*=INTERIM TEST-NAME:		NNTKUR	PH	PHNOL	PPUT	RSP	SS04UR	TURB	
		K'DAHL N							
		TOTAL		PHENOLS	PHOSPHOR		SULPHATE		
		UNF.REAC		UNF-REAC	UNF.TOT.	RESIDUE	UNF.REAC		
SAMPLE		MG/L		UG/L	MG/L	PARTIC.	MG/L	TURB'ITY	
DATE	HOUR	AS N	PH	PHENOL	AS P	MG/L	AS S04	FTU	
YYMMDD	LMT	SAMPLE							
		NUMBER							
		MAXIMUM	0.660	7.78	1.4	0.055	13.000	6.62	7.50
		ARITH MEAN	0.547	7.41	0.5<A	0.026	5.229	3.58	3.64
		GEOM MEAN	0.544	7.41		0.024	4.196	3.47	3.42
		MINIMUM	0.490	7.05	-0.2	0.014	1.280	2.69	2.10
		STD DEV (GEOM *)	0.061	0.24		0.012	3.787	1.12	1.54
		# SAMP IN STATISTICS	10	10	8	10	10	10	10
		% SAMP (EXCLUDED)							

## 1983 WATER QUALITY DATA REGION 5

334

B.O.W./ SITE: KAPUSKASING RIVER  
 SAMPLE POINT: 20MI.DOWNSTREAM FROM SPRUCE FALLS MILL  
 STATION TYPE: RIVER

STATION ID: 19-0064-035-02

MAJOR BASIN: ARCTIC DRAINAGE ONTARIO  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 49 33 49.16 LONG: 082 22 10.94 U T M: 17 0400950.0 5490800.0 4 REGION: 05 DISTANCE: 267.144

*INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5 5 DAY TOT.DEM. MG/L AS O	CLIDUR CHLORIDE UNF.REAC MG/L AS CL-	COD CHEM. OX DEMAND MG/L AS O	COND25 CONDUCT. 25C UMHO/CM AT 25 C	DO DISOLVED OXYGEN MG/L AS O	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C	NNOTFR NO2+NO3N FIL.REAC MG/L AS N	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE								
830518	0645	11600	0.30	0101	1.33	0.41	54.5	82.5	12.00	3	7.0	0.135
830705	1530	11803	0.30	0101	1.28	0.80	43.2	127.6	8.00		20.0	0.025
830711	1625	11807	0.30	0101	1.73	0.53	43.2	133.0	5.92		24.0	0.010<T
830718	1530	11811	0.30	0101	2.05	0.74	47.6	136.0	5.69		22.0	0.005<T
830725	1457	11815	0.30	0101	2.13	0.53	55.4	127.7	4.89		22.0	0.015
830802	1015	11819	0.30	0101					3.13		24.0	
830808		11823	0.30	0101	1.88	53.9	147.0	3.45	3.45		24.0	0.280<T
830814	1300	11827	0.30	0101	2.32	0.66	55.4	156.0	3.08		22.0	0.005<T
830823	0800	11831	0.30	0101	4.62	1.08	83.7	163.0	3.80		18.0	0.010<T
830831	0145	11835	0.30	0101	5.70	1.20	74.7	178.0	3.60		22.0	0.010<T
MAXIMUM		0.30			5.70	53.9	147.0	178.0	12.00		24.0	0.280
ARITH MEAN		0.30			2.56	6.6	67.2	123.0	5.36		20.5	0.055<A
GEOM MEAN					2.25	1.1	61.1	89.8	4.85		19.6	0.019<A
MINIMUM		0.30			1.28	0.41	43.2	3.45	3.08		7.0	0.005
STD DEV (GEOM *)					1.54	17.7	32.9	52.4	2.81		5.1	0.094<A
# SAMP IN STATISTICS		10			9	9	9	9	10		10	9
% SAMP (EXCLUDED)												

*INTERIM TEST-NAME:		NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PH	PHNOL PHENOLS UNF-REAC UG/L PHENOL	PPUT PHOSPHOR UNF.TOT. MG/L AS P	RSP RESIDUE PARTIC. MG/L	SS04UR SULPHATE UNF.REAC MG/L AS SO4	TURB TURB'ITY FTU
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER						
830518	0645	11600	0.580	7.05	0.2<T	0.032	14.500	3.44
830705	1530	11803	0.580	7.46	0.8	0.028	6.500	4.50
830711	1625	11807	0.520	7.47	0.2<T	0.020	4.290	6.17
830718	1530	11811	0.650	7.38	4.8	0.030	4.050	5.25
830725	1457	11815	0.700	7.68	0.2<T	0.035	1.160	5.51
830808		11823	7.55		0.020	4.220	5.77	4.00
830814	1300	11827	0.620	7.10	0.2<T	0.029	5.270	7.53
830823	0800	11831	0.800	7.26	0.4<T	0.026	2.320	8.85
830831	0145	11835	0.720	6.83	3.0	0.042	4.720	14.14
MAXIMUM		7.55	7.68	4.8	0.042	14.500	14.14	8.00
ARITH MEAN		1.41	7.28	1.2<A	0.029	5.226	6.80	4.32
GEOM MEAN		0.84	7.27	0.5<A	0.028	4.261	6.27	4.08
MINIMUM		0.520	6.83	0.2	0.020	1.160	3.44	2.20
STD DEV (GEOM *)		2.30	0.27	1.7<A	0.007	3.810	3.18	1.65
# SAMP IN STATISTICS		9	8	8	9	9	9	9
% SAMP (EXCLUDED)								

## 1983 WATER QUALITY DATA REGION 5

335

B.O.W./ SITE: ABITIBI RIVER  
 SAMPLE POINT: ABITIBI RIVER AT ONAKAWANA  
 STATION TYPE: RIVER FLOW GAUGE FED 04ME003

STATION ID: 19-0064-036-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 50 38 41.67 LONG: 081 24 36.54

U T M: 17 0471000.0 5610200.0 4

REGION: 05

DISTANCE: 9.600

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALUT	ASUT	CDUT	COUT	CRUT	CUUT	FEUT	HGUT
				ALUMINUM	ARSENIC	CADMIUM	COBALT	CHROMIUM	COPPER	IRON	MERCURY
SAMPLE DATE	HOUR	SAMPLE	PROJECT	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
			CODE	AS AL	AS AS	AS CD	AS CO	AS CR	AS CU	AS FE	AS HG
830516		4	0101	0.560	0.0010	0.0007	0.0020<	0.0070	0.0040	1.1000	0.280
		MAXIMUM		0.560	0.0010	0.0007		0.0070	0.0040	1.1000	0.280
		ARITH MEAN		0.560	0.0010	0.0007		0.0070	0.0040	1.1000	0.280
		GEOM MEAN									
		MINIMUM		0.560	0.0010	0.0007		0.0070	0.0040	1.1000	0.280
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS	1	1	1	1		1	1	1	1
		% SAMP (EXCLUDED)									
*=INTERIM TEST-NAME:		MNUT	NIUT	PBUT	ZNUT						
		MANGANESE	NICKEL	LEAD	ZINC						
SAMPLE DATE	HOUR	SAMPLE	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.					
YYMMDD	LMT	NUMBER	MG/L	MG/L	MG/L	MG/L					
			AS MN	AS NI	AS PB	AS ZN					
830516		4	0.050	0.002<	0.0030<	0.0110					
		MAXIMUM	0.050			0.0110					
		ARITH MEAN	0.050			0.0110					
		GEOM MEAN									
		MINIMUM	0.050			0.0110					
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS	1			1					
		% SAMP (EXCLUDED)									



## 336

STORET CODE: 04  
001  
0230

**DISTANCE:** 6.400

*INTERIM		TEST-NAME:	MNUT	NIUT	PBUT	ZNUT
			MANGANESE	NICKEL	LEAD	ZINC
SAMPLE			UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.
DATE	HR	SAMPLE	MG/L	MG/L	MG/L	MG/L
YYMMDD	LMT	NUMBER	AS MN	AS NI	AS PB	AS ZN
830516		3	0.043	0.002	0.0030<	0.0090
		MAXIMUM	0.043	0.002		0.0090
		ARITH MEAN	0.043	0.002		0.0090
		GEOM MEAN				
		MINIMUM	0.043	0.002		0.0090
		STD DEV (GEOM *)				
		% SAMP IN STATISTICS	1	1		1
		% SAMP (EXCLUDED)				

## 1983 WATER QUALITY DATA REGION 5

337

B.O.W./ SITE: KWATABOAHEGAN RIVER  
 SAMPLE POINT: KWATABOAHEGAN RIVER NEAR THE MOUTH  
 STATION TYPE: RIVER FLOW GAUGE FED 04KA001

STATION ID: 19-0064-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: JAMES BAY SHORE  
 TERM STREAM: MOOSE RIVER

STORET CODE: 04  
 001  
 0230

LAT: 51 08 56.70 LONG: 080 49 21.80 U T M: 17 0512400.0 5666200.0 4 REGION: 05 DISTANCE: 6.720

*INTERIM TEST-NAME:		FMSADP	FGPROJ	ALUT	ASUT	CDUT	COUT	CRUT	CUUT	FEUT	HGUT
SAMPLE		SAMPLE	PROJECT	ALUMINUM	ARSENIC	CADMIUM	COBALT	CHROMIUM	COPPER	IRON	MERCURY
DATE	HOUR	DEPTH	SUB-PROJ	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.
YYMMDD	LMT	NUMBER	CODE	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		M		AS AL	AS AS	AS CD	AS CO	AS CR	AS CU	AS FE	AS HG
830516		2	0101	0.150	0.0010	0.0005<	0.0020<	0.0070	0.0010	0.5800	0.820
		MAXIMUM		0.150	0.0010			0.0070	0.0010	0.5800	0.820
		ARITH MEAN		0.150	0.0010			0.0070	0.0010	0.5800	0.820
		GEOM MEAN									
		MINIMUM		0.150	0.0010			0.0070	0.0010	0.5800	0.820
		STD DEV (GEOM *)									
		# SAMP IN STATISTICS	1	1	1			1	1	1	1
		% SAMP (EXCLUDED)									

*INTERIM TEST-NAME:		MNUT	NIUT	PBUT	ZNUT
SAMPLE		MANGANSE	NICKEL	LEAD	ZINC
DATE	HOUR	UNF.TOT.	UNF.TOT.	UNF.TOT.	UNF.TOT.
YYMMDD	LMT	MG/L	MG/L	MG/L	MG/L
		AS MN	AS NI	AS PB	AS ZN
830516		2	0.002<	0.0030<	0.0070
		MAXIMUM			0.0070
		ARITH MEAN			0.0070
		GEOM MEAN			
		MINIMUM			0.0070
		STD DEV (GEOM *)			
		# SAMP IN STATISTICS	1		1
		% SAMP (EXCLUDED)			

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RIVER BASIN	STREAM	SAMPLE POINT DESCRIPTION	DISTANCE	LOCATION CODE	C.O.M. PAGE INDEX NO.
AGAWA RIVER		AT HIGHWAY 17	0.966	01-0012-001-02	2 B-01 3
ALBANY RIVER	ALBANY RIVER	ALBANY RIVER NEAR NOTTICK ISLAND	27.520	19-0053-001-02	9 D-01 305
	ALBANY RIVER	ALBANY RIVER NEAR HAT ISLAND	27.520	19-0053-003-02	9 F-01 308
	KENOGAMI RIVER	KENOGAMI RIVER NEAR MAMMAMATTAWA	47.780	19-0053-006-02	9 G-01 310
	LITTLE CURRENT RIVER	LITTLE CURRENT RIVER AT PERCY LAKE	37.760	19-0053-002-02	9 E-01 306
ATTAWAPISKAT RIVER	ATTAWAPISKAT RIVER	ATTAWAPISKAT RIVER BELOW MUKETEI RIVER	24.000	19-0043-001-02	9 B-01 301
	EKMAN RIVER	OTOSKWIN RIVER BELOW BADESDAWA LAKE	94.400	19-0043-002-02	9 C-01 303
BAR RIVER	BAR RIVER	AT FIRST BRIDGE ABOVE LAKE GEORGE	2.897	02-0006-001-02	3 A-01 12
BATCHAWANA RIVER	BATCHAWANA RIVER	AT HIGHWAY 17	0.322	07-0031-001-02	5 E-01 81
BENNETT CREEK	BENNETT CREEK	AT 2ND.LINE RD.SAULT STE MARIE	2.897	13-0007-003-02	6 I-01 97
	WEST DAVIGNON CREEK	AT 2ND.LINE RD.	2.575	13-0007-004-02	6 J-01 98
BIG CARP RIVER	BIG CARP RIVER	AT HERKIMER STREET SAULT STE MARIE	1.127	13-0003-001-02	6 H-01 95
BLANCH RIVER	ALLIGATOR CREEK	UPSTREAM OF ENGLEHART LAGOON DISCHARGE	50.209	18-7710-011-02	8 B-02 297
	ALLIGATOR CREEK	1ST.CONC.RD.D/S ENGLEHART LAGOON	47.312	18-7710-012-02	8 C-02 298
BLANCHE RIVER	BLANCHE RIVER	HIGHWAY 112, 8 MILES SOUTH OF SWASTIKA	85.776	18-7710-004-02	8 L-01 294
	BLANCHE RIVER	AT BRIDGE ON ROSEGROVE BEACH ROAD	96.719	18-7710-009-02	8 A-02 296
	LARDER LAKE	PUBLIC BEACH, LARDER LAKE	82.074	18-7710-003-01	8 K-01 292
	MURDOCK CREEK	HIGHWAY 112, 2.5 MILES EAST OF SWASTIKA	102.351	18-7710-006-02	8 M-01 295
BLIND RIVER	BLIND RIVER	AT HIGHWAY 17 BRIDGE BLIND RIVER	0.322	14-0014-003-02	7 F-01 122
BOYNE RIVER	BOYNE RIVER	OTTER LAKE OUTLET SOUTH OF PARRY SOUND	10.943	03-0096-002-02	4 A-01 16
DESBARATS RIVER	DESBARATS RIVER	HIGHWAY 17, VILLAGE OF DESBARATS	1.127	13-0019-002-02	6 D-02 110
EAST DAVIGNON CREEK	EAST DAVIGNON CREEK	NEAR MOUTH WEST OF ALGOMA STEEL	0.483	13-0008-001-02	6 K-01 99
	EAST DAVIGNON CREEK	AT 4THLINE RD, SAULT STE MARIE	6.276	13-0008-002-02	6 L-01 101

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RIVER BASIN	STREAM	SAMPLE POINT DESCRIPTION	DISTANCE	LOCATION CODE	C.O.M. INDEX	PAGE NO.
ECHO RIVER	ECHO RIVER	AT FIRST BRIDGE ABOVE ECHO BAY	3.540	02-0007-001-02	3 B-01	14
FARR CREEK	COBALT LAKE	AT OUTLET, COBALT	9.495	18-7370-002-01	8 H-01	288
	FARR CREEK	DOWNSTREAM FROM CROSSWISE LAKE	5.472	18-7370-001-02	8 G-01	286
	SASAGINAGA LAKE	NEAR COBALT	10.460	18-7370-003-01	8 I-01	289
FORT CREEK	FORT CREEK	AT MOUTH, SAULT STE MARIE	0.161	13-0009-001-02	6 M-01	102
FRENCH RIVER	STURGEON RIVER	LAKE TEMAGAMI MNR DOCK	0.000	03-0133-029-01	4 A-03	63
FRENCH RIVER MAIN CH	STURGEON RIVER	4MI.DOWNSTREAM FROM HIGHWAY NO.17	117.318	03-0133-003-02	4 J-01	32
	STURGEON RIVER	AT BRIDGE IN STURGEON FALLS	124.077	03-0133-004-02	4 K-01	34
FRENCH RIVER MAIN CH	CALLANDER BAY	NEAR DOCKS CALLANDER BAY	0.000	03-0133-009-01	4 L-01	36
	CHIPPEWA CREEK	AT MOUTH AMELIA PARK NORTH BAY	215.163	03-0133-019-02	4 G-02	50
	CHIPPEWA CREEK	AT GOLF CLUB ROAD NORTH BAY	220.152	03-0133-025-02	4 K-02	57
	DUCHESNAY RIVER	HWY.17 UPSTREAM OF NORDFIBRE	114.743	03-0133-012-02	4 B-02	42
	DUCHESNAY RIVER	HWY.17B DOWNSTREAM OF NORDFIBRE	114.260	03-0133-013-02	4 C-02	44
	FRENCH RIVER	AT HIGHWAY 69	28.967	03-0133-001-02	4 H-01	28
	GENESEE CREEK	POWASSAN WATER WORKS	147.251	03-0133-020-02	4 H-02	52
	GENESEE CREEK	AT HIGHWAY 11 POWASSAN	145.642	03-0133-022-02	4 I-02	53
	LA VASE RIVER	UPSTREAM FROM DUPONT NORTH BAY	121.180	03-0133-014-02	4 D-02	45
	LA VASE RIVER	DOWNSTREAM FROM DUPONT NORTH BAY	120.698	03-0133-015-02	4 E-02	47
	LA VASE RIVER	AT MOUTH NORTH BAY	0.322	03-0133-024-02	4 J-02	55
	LAKE NIPISSING	AT AMELIA BEACH NORTH BAY	0.000	03-0133-010-01	4 M-01	38
	LAKE NIPISSING	DOWNSTREAM GOVERNMENT DOCKS NORTH BAY	0.000	03-0133-011-01	4 A-02	40
	PARKS CREEK	AT LAKESHORE DRIVE NORTH BAY	0.161	03-0133-026-02	4 L-02	59
	STURGEON RIVER	FIRST BRIDGE UPSTREAM FROM CRYSTAL FALLS	140.492	03-0133-017-02	4 F-02	48
	STURGEON RIVER	DOWNSTREAM FROM HIGHWAY NO 17	123.755	03-0133-028-02	4 M-02	61

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RIVER BASIN	STREAM	SAMPLE POINT DESCRIPTION	DISTANCE	LOCATION CODE	C.O.M. INDEX	PAGE NO.
FRENCH RIVER MAIN CH	VEUVE RIVER	AT FIRST ROAD UPSTREAM FROM CACHE BAY	126.330	03-0133-002-02	4 I-01	30
FRENCH RIVER WEST CH	CONISTON CREEK	HIGHWAY 17 CONISTON	88.512	03-0134-005-02	4 C-03	66
	CONISTON CREEK	UPSTREAM FROM WANAPITEI RIVER CONISTON	84.971	03-0134-006-02	4 D-03	67
	CONISTON CREEK	AT N.I.R. ROAD	99.600	03-0134-016-02	4 H-03	73
	ROMFORD CREEK	UPSTREAM FROM JUNCTION WITH CONISTON CR	88.672	03-0134-013-02	4 F-03	71
	ROMFORD CREEK	EDWARD STREET BRIDGE, CONISTON	88.994	03-0134-014-02	4 G-03	72
	WANAPITEI RIVER	AT BRIDGE IN ST. CLOUD	72.740	03-0134-001-02	4 B-03	64
	WANAPITEI RIVER	AT TIMMINS CHUTE	96.075	03-0134-008-02	4 E-03	69
GARDEN RIVER	GARDEN RIVER	HIGHWAY 17, GARDEN RIVER	2.253	13-0013-001-02	6 C-02	108
GOULAIS RIVER	GOULAIS RIVER	AT BRIDGE GOULAIS RIVER	12.231	07-0009-003-02	5 A-01	74
HARMONY RIVER	HARMONY RIVER	HIGHWAY 17 CHIPPEWA FALLS	0.805	07-0028-001-02	5 D-01	80
MAGNETAWAN RIVER	BERNARD CREEK	1ST.BRIDGE DNSTR.FROM SUNDRIDGE LAGOON	133.089	03-0124-004-02	4 E-01	23
	BERNARD CREEK	AT HIGHWAY NO. 520	116.191	03-0124-005-02	4 F-01	25
	MAGNETAWAN RIVER	AT 1ST.BRIDGE DNSTR.FROM HIGHWAY NO 11	120.376	03-0124-001-02	4 C-01	19
	MAGNETAWAN RIVER	AT HIGHWAY 69	10.460	03-0124-003-02	4 D-01	21
MAGPIE RIVER	MAGPIE RIVER	AT BRIDGE DOWNSTREAM FROM MISSION FALLS	2.092	01-0029-005-02	2 D-01	6
	MAGPIE RIVER	UPSTREAM OF WAWA LAGOONS	13.358	01-0029-006-02	2 E-01	9
MATTAWA RIVER	FOUR MILE CREEK	FOUR MILE CREEK AT MOUTH	14.805	18-6070-100-02	8 D-01	282
	KAIBUSKONG RIVER	AT DAM IN BONDFIELD	35.727	18-6070-090-02	8 C-01	280
	MATTAWA RIVER	HIGHWAY 533 BRIDGE MATTAWA	0.161	18-6070-020-02	8 B-01	278
MC CURRY LAKE	MC CURRY LAKE OUTLET	EHIL STREET PARRY SOUND	0.322	03-0097-001-02	4 B-01	17
MICHIPICOTEN RIVER	MICHIPICOTEN RIVER	HIGHWAY 17 5 MILES SOUTH OF WAWA	6.115	01-0029-001-02	2 C-01	4
MISSISSAGI RIVER	MISSISSAGI RIVER	AT MISSISSAGI CHUTE	3.862	14-0012-001-02	7 C-01	116
	MISSISSAGI RIVER	AT DEAN LAKE ROAD BRIDGE	16.415	14-0012-003-02	7 D-01	118

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RIVER BASIN	STREAM	SAMPLE POINT DESCRIPTION	DISTANCE	LOCATION CODE	C.O.M. PAGE INDEX NO.
MISSISSAGI RIVER	MISSISSAGI RIVER	AT MOUTH	0.500	14-0012-004-02	7 E-01 120
MONTREAL RIVER	GIROUX LAKE	AT OUTLET NEAR COBALT	106.697	18-6975-001-01	8 E-01 284
	GIROUX LAKE	AT GLEN LAKE OUTLET	108.950	18-6975-004-01	8 F-01 285
	MONTREAL RIVER	HIGHWAY NO 17 66 MILES SOUTH OF WAWA	0.805	01-0009-001-02	2 A-01 1
MOOSE RIVER	ABITIBI RIVER	AT HIGHWAY NO 574	283.720	19-0064-023-02	9 B-02 323
	ABITIBI RIVER	UPSTR.OF ABITIBI MILL DISCHARGE	373.840	19-0064-031-02	9 H-02 329
	ABITIBI RIVER	UPSTR.FROM ABITIBI IROQUOIS FALLS DAM	373.519	19-0064-032-02	9 I-02 330
	ABITIBI RIVER	ABITIBI RIVER AT ONAKAWANA	9.600	19-0064-036-02	9 M-02 335
	GROUNDHOG RIVER	HIGHWAY 11 BRIDGE IN FAUQUIER	300.134	19-0064-016-02	9 M-01 319
	IVANHOE RIVER	HIGHWAY 101 AND RAILROAD BRIDGE FOLOYET	459.455	19-0064-019-02	9 A-02 321
	KAPUSKASING RIVER	BELOW BIG BEAVER FALLS	315.179	19-0064-028-02	9 F-02 327
	KAPUSKASING RIVER	UPSTR LOST RIVER	281.287	19-0064-029-02	9 G-02 328
	KAPUSKASING RIVER	AT SPRUCE FALLS MILL INTAKE	300.617	19-0064-034-02	9 K-02 332
	KAPUSKASING RIVER	20MI.DOWNSTREAM FROM SPRUCE FALLS MILL	267.144	19-0064-035-02	9 L-02 334
	KNATABOAHEGAN RIVER	KNATABOAHEGAN RIVER NEAR THE MOUTH	6.720	19-0064-038-02	9 B-03 337
	MATTAGAMI RIVER	HIGHWAY 101 BRIDGE, TIMMINS	427.269	19-0064-002-02	9 H-01 311
	MATTAGAMI RIVER	UPSTR.OF ABITIBI PAPER SMOOTH ROCK FALLS	317.837	19-0064-011-02	9 L-01 318
	MATTAGAMI RIVER	12MI.DOWNSTREAM FROM SMOOTH ROCK FALLS	297.399	19-0064-033-02	9 J-02 331
	MATTAWISHKIA RIVER	KENDALL CREEK	350.390	19-0064-027-02	9 E-02 326
	MATTAWISHKIA RIVER	HIGHWAY 11 TOWN OF HEARST	344.390	19-0064-008-02	9 K-01 317
	MATTAWISHKIA RIVER	ON RD.BETWEEN LOTS 6&7 UPSTR OF HEARST	353.241	19-0064-025-02	9 C-02 324
	MATTAWISHKIA RIVER	PRUNE CREEK AT JOGUES	361.990	19-0064-026-02	9 D-02 325
	NORTH FRENCH RIVER	NORTH FRENCH RIVER NEAR THE MOUTH	6.400	19-0064-037-02	9 A-03 336
	PORCUPINE RIVER	HIGHWAY 101 WHITNEY TOWNSHIP	431.936	19-0064-003-02	9 I-01 313

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RIVER BASIN	STREAM	SAMPLE POINT DESCRIPTION	DISTANCE	LOCATION CODE	C.O.M. PAGE INDEX NO.
MOOSE RIVER	PORCUPINE RIVER	HIGHWAY 101 BRIDGE, HOYLE	404.739	19-0064-004-02	9 J-01 315
OTTAWA RIVER	OTTAWA RIVER	AT OTTO HOLDEN DAM 1200' FROM P/Q SHORE	548.610	18-0000-360-02	8 A-01 277
PICKEREL RIVER	PICKEREL RIVER	AT HIGHWAY 69	27.680	03-0130-001-02	4 G-01 26
ROOT RIVER	ROOT RIVER	AT HWY.NO.17 EAST OF SAULT STE MARIE	1.287	13-0011-001-02	6 A-02 104
	ROOT RIVER	AT HWY.NO.17 NORTH OF SAULT STE MARIE	13.840	13-0011-002-02	6 B-02 106
SERPENT RIVER	BUCKLES CREEK	AT HWY.NO 108 SOUTH OF ELLIOT LAKE 40 1	73.062	14-0019-007-09	7 L-01 134
	CAMP LAKE	AT SOUTH END 55 1	16.737	14-0019-037-01	7 G-03 174
	CREEK	NEAR ROAD TO STANROCK TOWNSITE 32 2	86.902	14-0019-012-09	7 C-02 142
	CROTCH LAKE OUTLET	AT CROTCH LAKE 34 1	70.005	14-0019-006-09	7 K-01 132
	DEPOT LAKE OUTLET	AT LAKE DEPOT 52 1	46.509	14-0019-002-02	7 H-01 126
	DUNLOP LAKE	DUNLOP LAKE IN BAY A 18 1	93.822	14-0019-030-01	7 M-02 160
	DUNLOP LAKE OUTLET	AT OUTLET OF DUNLOP LAKE 18 2	93.339	14-0019-019-02	7 F-02 148
	ELLIOT LAKE	AT ELLIOT LAKE MUNICIPAL PUMPHOUSE 48 1	76.442	14-0019-027-01	7 L-02 158
	ESTEN LAKE	CENTRAL PART OF ESTEN LAKE 49 1	60.188	14-0019-067-01	7 H-04 200
	ESTEN LAKE OUTLET	OUTLET OF ESTEN LAKE DIVERSION	65.498	14-0019-074-02	7 M-04 210
	EVANS LAKE OUTLET	AT NEW DIVERSION	95.270	14-0019-073-02	7 L-04 208
	GRAVEL PIT LAKE OUTLET	AT NEW OUTLET	93.017	14-0019-072-02	7 K-04 206
	HOUGH LAKE	CENTRE OF LAKE	56.808	14-0019-041-01	7 K-03 181
	MAY LAKE	SOUTH END OF MAY LAKE 33 3	61.636	14-0019-054-01	7 E-04 194
	MAY LAKE	NORTH END OF MAY LAKE 33 1	64.372	14-0019-055-01	7 F-04 196
	MCCABE LAKE	CENTRE OF LAKE 35 1	69.522	14-0019-036-01	7 F-03 172
	MCCARTHY LAKE	AT WEST END 53 1	40.876	14-0019-039-01	7 I-03 177
	MCCARTHY LAKE	AT SOUTH END 53 3	36.692	14-0019-040-01	7 J-03 179
	NORTH NORDIC LAKE	AT EFFLUENT CANAL N 19	72.097	14-0019-043-01	7 L-03 183

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	PANEL CREEK	AT QUIRKE LAKE P11	79.500	14-0019-056-02	7 G-04 198
	PANEL MINE TAILINGS EFFLUENT	AT TAILINGS TREATMENT EFFLUENT	80.000	14-0019-071-02	7 J-04 204
	PECORS LAKE INLET	AT PECORS LAKE 37 1	54.716	14-0019-004-02	7 J-01 130
	PECORS LAKE OUTLET	AT PECORS LAKE 38 1	47.796	14-0019-003-02	7 I-01 128
	PRONTO DITCH	OUTLET BELOW PRONTO TREATMENT PLANT PR 4	1.770	14-0019-046-09	7 B-04 188
	PRONTO EFFLUENT	AT HWY.NO.17 NEAR PRONTO MINE RD.60 1	0.805	14-0019-023-01	7 I-02 153
	QUIRKE LAKE	SOUTH WEST OF STANROCK MINE 25 4	85.454	14-0019-031-01	7 A-03 162
	QUIRKE LAKE	NORTH EAST OF CAN MET MINE 25 7	81.109	14-0019-032-01	7 B-03 164
	QUIRKE LAKE	SOUTH EAST CORNER 25 (	83.040	14-0019-033-01	7 C-03 166
	QUIRKE LAKE	EAST OF DENISON MINE 25 2	85.776	14-0019-034-01	7 D-03 168
	QUIRKE MINE TAILINGS	TREATED QUIRKE TAILINGS EFFLUENT	89.799	14-0019-051-01	7 D-04 192
	QUIRKE TAILINGS CONTROL	POND A OUTLET	91.730	14-0019-022-01	7 H-02 152
	ROCHESTER CREEK	NEAR INLET TO QUIRKE LAKE	79.660	14-0019-010-02	7 A-02 138
	SERPENT HARBOUR	NEAR HOSPITAL POINT 08 2	0.000	14-0019-038-01	7 H-03 175
	SERPENT RIVER	AT OLD HWY.NO.17 E.OF HWYS.108&17 57 2	8.207	14-0019-001-02	7 G-01 124
	SERPENT RIVER	NEAR INLET TO QUIRKE LAKE	86.098	14-0019-011-02	7 B-02 140
	SERPENT RIVER	AT PANEL MINESIDE ROAD 24 1	89.477	14-0019-014-02	7 D-02 144
	SERPENT RIVER	AT QUIRKE LAKE OUTLET 26 1	77.890	14-0019-049-02	7 C-04 190
	SERPENT RIVER TRIB	PANEL MINE TREATMENT PLANT INFLOW P13	80.643	14-0019-025-02	7 J-02 155
	SERPENT RIVER TRIB	PANEL MINE TREATMENT PLANT OUTLET P14	80.321	14-0019-026-09	7 K-02 156
	SERPENT RIVER TRIB.	MOOSE LAKE OUTLET	85.293	14-0019-020-02	7 G-02 150
	SHERIFF CREEK	AT HIGHWAY NO 108 ELLIOT LAKE 45 1	78.051	14-0019-009-02	7 H-01 136
	STOLLERY LAKE	STOLLERY LAKE AT DENISON DAM 21 4	92.535	14-0019-017-09	7 E-02 146



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	WHISKEY LAKE	SOUTH END NEAR RUM POINT 29 4	59.383	14-0019-035-01	7 E-03 170
	WILLIAMS LAKE CREEK	AT DENISON MINE ACCESS ROAD D 3	91.408	14-0019-045-02	7 A-04 186
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	COPPER CLIFF CREEK	AT CEASAR ROAD SUDBURY	131.802	14-0028-005-02	7 B-05 214
	JUNCTION CREEK	AT OUTLET OF KELLY LAKE	122.951	14-0028-003-02	7 A-05 212
	JUNCTION CREEK	AT ORELL STREET CARSON	150.148	14-0028-042-02	7 B-06 241
	JUNCTION CREEK	UPSTREAM OF SIMON LAKE AT RESERVE ROAD	112.973	14-0028-046-02	7 E-06 245
	JUNCTION CREEK	100 FEET UPSTR.OF SUDBURY STP OUTFALL	129.227	14-0028-047-02	7 F-06 247
	JUNCTION CREEK	AT KELLEY LAKE ROAD	130.514	14-0028-048-02	7 G-06 249
	JUNCTION CREEK	AT KING STREET SUDBURY	137.273	14-0028-049-02	7 H-06 251
	JUNCTION CREEK	HWY.69 2 CULVERT N.OF TURNER AVE	138.238	14-0028-061-02	7 C-07 265
	JUNCTION CREEK	1 CULVERT N.OF TURNER AVE.ON HWY 69.N.	137.273	14-0028-062-02	7 D-07 266
	JUNCTION CREEK	HWY 69 N 1000M N OF STOBIE MINE RD	140.491	14-0028-063-02	7 E-07 267
	JUNCTION CREEK	HWY 69 N, 3RD CULVERT N OF TURNER AVE	137.543	14-0028-070-02	7 L-07 275
	JUNCTION CREEK	AT CULVERT ON TURNER AVE 200M W OF HWY 69N	134.393	14-0028-071-02	7 M-07 276
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	MOOSE CREEK	AT FECUNIS LAKE OUTLET	183.700	14-0028-060-02	7 B-07 264
	NOLIN CREEK	AT HIGHWAY NO 144	139.848	14-0028-043-02	7 C-06 242
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	ONAPING RIVER	AT MORGAN RD	11.360	14-0028-031-02	7 K-05 229
	ONAPING RIVER	GRASSY CR DNSTR INCO TAILINGS	24.160	14-0028-065-02	7 G-07 270
	ONAPING RIVER	GRASSY CR UPSTR MOOSE CREEK	22.560	14-0028-066-02	7 H-07 271
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	STOKLEY CREEK	AT HIGHWAY 17	0.161	07-0020-002-02	5 C-01	78
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